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OM protein - protein search, using sw model

Run On: July 27, 2005, 14:50:45 ; Search time 160 Seconds
(without alignments)
1030.830 Million cell updates/sec

Title: US-09-597-513-2
Perfect score: 2200
Sequence: 1 MSIGITPRQQTTPPLDPSA.....MTDVKHAYDKTQASTQHTL 424

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1741741 seqs, 388992284 residues

Total number of hits satisfying chosen parameters: 1741741

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
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- 16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US10E_PUBCOMB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/1/pubpaa/US11A_PUBCOMB.pep.*
- 20: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep.*
- 21: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 22: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2200	100.0	424	9	US-09-835-684-9
2	2200	100.0	424	9	US-09-880-371-9
3	2200	100.0	424	9	US-09-879-248-14
4	2200	100.0	424	14	US-10-010-390-9
5	2200	100.0	424	15	US-10-441-736-14
6	2200	100.0	424	16	US-10-847-142-9
7	559	25.4	447	9	US-09-835-684-5
8	559	25.4	447	9	US-09-880-371-5
9	559	25.4	447	9	US-09-879-248-6
10	559	25.4	447	14	US-10-010-390-5
11	559	25.4	447	15	US-10-441-736-6

12	559	25.4	447	16	US-10-847-142-5	Sequence 5, Appli
13	283.5	12.9	324	15	US-10-355-956-2	Sequence 2, Appli
14	283.5	12.9	324	17	US-10-504-048-2	Sequence 2, Appli
15	227.5	10.3	276	14	US-10-156-761-13910	Sequence 13910, A
16	216	9.8	3190	17	US-10-732-923-18448	Sequence 18448, A
17	214	9.7	3276	17	US-10-732-923-18447	Sequence 18447, A
18	199	9.0	255	16	US-10-425-115-313677	Sequence 313677, A
19	194.5	8.8	2498	14	US-10-123-155-483	Sequence 483, App
20	194.5	8.8	2498	14	US-10-146-731-483	Sequence 483, App
21	194.5	8.8	2498	14	US-10-140-472-483	Sequence 483, App
22	194.5	8.8	2498	14	US-10-141-761-483	Sequence 483, App
23	194.5	8.8	2498	14	US-10-142-885-483	Sequence 483, App
24	194.5	8.8	2498	14	US-10-158-790-483	Sequence 483, App
25	194.5	8.8	2498	15	US-10-137-871-483	Sequence 483, App
26	194.5	8.8	2498	15	US-10-140-923-483	Sequence 483, App
27	194.5	8.8	2498	15	US-10-141-759-483	Sequence 483, App
28	194.5	8.8	2498	15	US-10-141-759-483	Sequence 483, App
29	194.5	8.8	2498	15	US-10-140-805-483	Sequence 483, App
30	194.5	8.8	2498	15	US-10-140-864-483	Sequence 483, App
31	194.5	8.8	2498	15	US-10-142-426-483	Sequence 483, App
32	193	8.8	525	16	US-10-755-889-650	Sequence 650, App
33	191	8.7	722	15	US-10-282-122A-51993	Sequence 51993, A
34	189.5	8.6	208	14	US-10-029-386-33055	Sequence 33055, A
35	189	8.6	237	15	US-10-282-122A-68044	Sequence 68044, A
36	188	8.5	667	15	US-10-282-122A-64494	Sequence 64494, A
37	188	8.5	847	16	US-10-437-963-118741	Sequence 118741, A
38	187.5	8.5	357	9	US-09-864-761-35807	Sequence 35807, A
39	186.5	8.5	226	16	US-10-425-115-229387	Sequence 229387, A
40	186.5	8.5	1096	17	US-10-741-849-7179	Sequence 7179, Ap
41	185.5	8.4	1079	10	US-09-820-843A-20	Sequence 20, Appl
42	185	8.4	283	9	US-09-864-761-36720	Sequence 36720, A
43	184.5	8.4	360	16	US-10-437-963-118547	Sequence 118547, A
44	182	8.3	351	16	US-10-767-701-45288	Sequence 45288, A
45	181.5	8.2	1046	14	US-10-156-761-10088	Sequence 10088, A

ALIGNMENTS

RESULT 1

US-09-835-684-9
; Sequence 9, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-09-835-684-9

Query Match	100.0%	Score 2200;	DB 9;	Length 424;
Best Local Similarity	100.0%;	Pred. No. 1.2e-138;		
Matches 424;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	MSIGITPRQQTTPPLDPSALSGKSPQNTFGONTQAIDPSALLFGSDTKOVNFGTP	60	
DB	1	MSIGITPRQQTTPPLDPSALSGKSPQNTFGONTQAIDPSALLFGSDTKOVNFGTP	60	
QY	61	DSTVQNPQDASKPNDQSQNIKLI.SALIMSLQMLTNSKKQDNTQEQPDQSOAPFQNGG	120	

Db 61 DSTVQNPQDASKPNDQSNIAKLISALIMSLQMLTNSNKKQDNTNOEQPDSQAPFQNNGG 120
Qy 121 LGTPSADSGGGTTPDATGGGGTTPSATGGGGTTPATGGGGTTPATGGGGTTPATGGGGT 180
Db 121 LGTPSADSGGGTTPDATGGGGTTPSATGGGGTTPATGGGGTTPATGGGGTTPATGGGGT 180
Qy 181 PTATGGGGTTPQITPOLANPNRTSGTGSVSDTAGSTEQAGKINNVKDTIKVGAAGEVFD 240
Db 181 PTATGGGGTTPQITPOLANPNRTSGTGSVSDTAGSTEQAGKINNVKDTIKVGAAGEVFD 240
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Db 241 GHGATFTADKSMGNGDQGENQKPMFELAEAGTLKNNVLGENEVDGIHVAKNAQAEVTDN 300
Qy 301 VHAQNVGSDLIITVKGEGGAATVNLNINSSAKGADDKVVQVQVQVQVQVQVQVQVQVQVQV 360
Db 301 VHAQNVGSDLIITVKGEGGAATVNLNINSSAKGADDKVVQVQVQVQVQVQVQVQVQVQVQV 360
Qy 361 VRTNGGKQFDDMSIELNGIEANHGKFPALVKSDSDLLKATGNIAVTDVVKHAYDKTQASTQ 420
Db 361 VRTNGGKQFDDMSIELNGIEANHGKFPALVKSDSDLLKATGNIAVTDVVKHAYDKTQASTQ 420
Qy 421 HTEL 424
Db 421 HTEL 424

RESULT 2

US-09-880-371-9
; Sequence 9, Application US/09880371
; Patent No. US2002005958A1
; GENERAL INFORMATION:
; APPLICANT: DeRoche, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; PRIOR FILING DATE: 2001-06-13
; PRIOR FILING DATE: 2001-06-13
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-09-880-371-9

Query Match 100.0%; Score 2200; DB 9; Length 424;
Best Local Similarity 100.0%; Pred. No. 1.2e-138;
Matches 424; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MSIGITPRPQQTTPDLSALSGKSPQNTFGEQNTQQAIDPSALLFGSDTKQDVNFGTP 60
Db 1 MSIGITPRPQQTTPDLSALSGKSPQNTFGEQNTQQAIDPSALLFGSDTKQDVNFGTP 60
Qy 61 DSTVQNPQDASKPNDQSNIAKLISALIMSLQMLTNSNKKQDNTNOEQPDSQAPFQNNGG 120
Db 61 DSTVQNPQDASKPNDQSNIAKLISALIMSLQMLTNSNKKQDNTNOEQPDSQAPFQNNGG 120
Qy 121 LGTPSADSGGGTTPDATGGGGTTPSATGGGGTTPATGGGGTTPATGGGGTTPATGGGGT 180
Db 121 LGTPSADSGGGTTPDATGGGGTTPSATGGGGTTPATGGGGTTPATGGGGTTPATGGGGT 180
Qy 181 PTATGGGGTTPQITPOLANPNRTSGTGSVSDTAGSTEQAGKINNVKDTIKVGAAGEVFD 240
Db 181 PTATGGGGTTPQITPOLANPNRTSGTGSVSDTAGSTEQAGKINNVKDTIKVGAAGEVFD 240
Qy 241 GHGATFTADKSMGNGDQGENQKPMFELAEAGTLKNNVLGENEVDGIHVAKNAQAEVTDN 300
Db 241 GHGATFTADKSMGNGDQGENQKPMFELAEAGTLKNNVLGENEVDGIHVAKNAQAEVTDN 300

Qy 301 VHAQNVGSDLIITVKGEGGAATVNLNINSSAKGADDKVVQVQVQVQVQVQVQVQVQVQVQV 360
Db 301 VHAQNVGSDLIITVKGEGGAATVNLNINSSAKGADDKVVQVQVQVQVQVQVQVQVQVQVQV 360
Qy 361 VRTNGGKQFDDMSIELNGIEANHGKFPALVKSDSDLLKATGNIAVTDVVKHAYDKTQASTQ 420
Db 361 VRTNGGKQFDDMSIELNGIEANHGKFPALVKSDSDLLKATGNIAVTDVVKHAYDKTQASTQ 420
Qy 421 HTEL 424
Db 421 HTEL 424

RESULT 3

US-09-879-248-14
; Sequence 14, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; PRIOR FILING DATE: 2001-06-12
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-09-879-248-14

Query Match 100.0%; Score 2200; DB 9; Length 424;
Best Local Similarity 100.0%; Pred. No. 1.2e-138;
Matches 424; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MSIGITPRPQQTTPDLSALSGKSPQNTFGEQNTQQAIDPSALLFGSDTKQDVNFGTP 60
Db 1 MSIGITPRPQQTTPDLSALSGKSPQNTFGEQNTQQAIDPSALLFGSDTKQDVNFGTP 60
Qy 61 DSTVQNPQDASKPNDQSNIAKLISALIMSLQMLTNSNKKQDNTNOEQPDSQAPFQNNGG 120
Db 61 DSTVQNPQDASKPNDQSNIAKLISALIMSLQMLTNSNKKQDNTNOEQPDSQAPFQNNGG 120
Qy 121 LGTPSADSGGGTTPDATGGGGTTPSATGGGGTTPATGGGGTTPATGGGGTTPATGGGGT 180
Db 121 LGTPSADSGGGTTPDATGGGGTTPSATGGGGTTPATGGGGTTPATGGGGTTPATGGGGT 180
Qy 181 PTATGGGGTTPQITPOLANPNRTSGTGSVSDTAGSTEQAGKINNVKDTIKVGAAGEVFD 240
Db 181 PTATGGGGTTPQITPOLANPNRTSGTGSVSDTAGSTEQAGKINNVKDTIKVGAAGEVFD 240
Qy 241 GHGATFTADKSMGNGDQGENQKPMFELAEAGTLKNNVLGENEVDGIHVAKNAQAEVTDN 300
Db 241 GHGATFTADKSMGNGDQGENQKPMFELAEAGTLKNNVLGENEVDGIHVAKNAQAEVTDN 300
Qy 301 VHAQNVGSDLIITVKGEGGAATVNLNINSSAKGADDKVVQVQVQVQVQVQVQVQVQVQVQV 360
Db 301 VHAQNVGSDLIITVKGEGGAATVNLNINSSAKGADDKVVQVQVQVQVQVQVQVQVQVQVQV 360
Qy 361 VRTNGGKQFDDMSIELNGIEANHGKFPALVKSDSDLLKATGNIAVTDVVKHAYDKTQASTQ 420
Db 361 VRTNGGKQFDDMSIELNGIEANHGKFPALVKSDSDLLKATGNIAVTDVVKHAYDKTQASTQ 420
Qy 421 HTEL 424
Db 421 HTEL 424

RESULT 4

US-10-010-390-9
; Sequence 9, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; FILE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-010-390-9

Query Match 100.0%; Score 2200; DB 14; Length 424;
Best Local Similarity 100.0%; Pred. No. 1.2e-138;
Matches 424; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSIGITPRPQQTTPDLDFALSQSPQNTFGEQNTQQAIDPSALLFGSDTKQDVNFGTP 60
DB 1 MSIGITPRPQQTTPDLDFALSQSPQNTFGEQNTQQAIDPSALLFGSDTKQDVNFGTP 60
QY 61 DSTVQNPQDASKPNDQSQNIKLI SALIMSLLOMLTNSNKKQDTNQEOPDSQAPFQNNGG 120
DB 61 DSTVQNPQDASKPNDQSQNIKLI SALIMSLLOMLTNSNKKQDTNQEOPDSQAPFQNNGG 120
QY 121 LGTPSADSGGGTDPATGCGGGDTPSATGCGGGDTPATGCGGGGGTPTATGCGSGGT 180
DB 121 LGTPSADSGGGTDPATGCGGGDTPSATGCGGGDTPATGCGGGGGTPTATGCGSGGT 180
QY 181 PTATGCGGGTTPQITPOLANPNRTSGTSGVSDTAGSTEQAGKINNVKDTIKVGAGEVFD 240
DB 181 PTATGCGGGTTPQITPOLANPNRTSGTSGVSDTAGSTEQAGKINNVKDTIKVGAGEVFD 240
QY 241 GHGATFTADKSMGNGDQGENOKPMFELAEAGATLKNNVLGENEVDGIHVAKAKNAQEVTTIDN 300
DB 241 GHGATFTADKSMGNGDQGENOKPMFELAEAGATLKNNVLGENEVDGIHVAKAKNAQEVTTIDN 300
QY 301 VHAQNVGDLITVKGEGGAATNLNKNSSAKGADDKVVQLNANTHLKIDNFKADDFGTM 360
DB 301 VHAQNVGDLITVKGEGGAATNLNKNSSAKGADDKVVQLNANTHLKIDNFKADDFGTM 360
QY 361 VRTNGKQDDMSIELNGIEANHGKFPALVKSDSDLLKATGNIAMTDVKHAYDKTQASTQ 420
DB 361 VRTNGKQDDMSIELNGIEANHGKFPALVKSDSDLLKATGNIAMTDVKHAYDKTQASTQ 420
QY 421 HTEL 424
DB 421 HTEL 424

RESULT 5
US-10-441-736-14
; Sequence 14, Application US/10441736
; Publication No. US20040016029A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Schading, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; FILE OF INVENTION: RESISTANCE
; FILE REFERENCE: 21829/203 (EBC-003)
; CURRENT APPLICATION NUMBER: US/10/441,736
; CURRENT FILING DATE: 2003-05-20
; PRIOR APPLICATION NUMBER: 60/107,243
; PRIOR FILING DATE: 1998-11-05

US-10-441-736-14
; PRIOR APPLICATION NUMBER: 09/431,614
; PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-441-736-14

Query Match 100.0%; Score 2200; DB 15; Length 424;
Best Local Similarity 100.0%; Pred. No. 1.2e-138;
Matches 424; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSIGITPRPQQTTPDLDFALSQSPQNTFGEQNTQQAIDPSALLFGSDTKQDVNFGTP 60
DB 1 MSIGITPRPQQTTPDLDFALSQSPQNTFGEQNTQQAIDPSALLFGSDTKQDVNFGTP 60
QY 61 DSTVQNPQDASKPNDQSQNIKLI SALIMSLLOMLTNSNKKQDTNQEOPDSQAPFQNNGG 120
DB 61 DSTVQNPQDASKPNDQSQNIKLI SALIMSLLOMLTNSNKKQDTNQEOPDSQAPFQNNGG 120
QY 121 LGTPSADSGGGTDPATGCGGGDTPSATGCGGGDTPATGCGGGGGTPTATGCGSGGT 180
DB 121 LGTPSADSGGGTDPATGCGGGDTPSATGCGGGDTPATGCGGGGGTPTATGCGSGGT 180
QY 181 PTATGCGGGTTPQITPOLANPNRTSGTSGVSDTAGSTEQAGKINNVKDTIKVGAGEVFD 240
DB 181 PTATGCGGGTTPQITPOLANPNRTSGTSGVSDTAGSTEQAGKINNVKDTIKVGAGEVFD 240
QY 241 GHGATFTADKSMGNGDQGENOKPMFELAEAGATLKNNVLGENEVDGIHVAKAKNAQEVTTIDN 300
DB 241 GHGATFTADKSMGNGDQGENOKPMFELAEAGATLKNNVLGENEVDGIHVAKAKNAQEVTTIDN 300
QY 301 VHAQNVGDLITVKGEGGAATNLNKNSSAKGADDKVVQLNANTHLKIDNFKADDFGTM 360
DB 301 VHAQNVGDLITVKGEGGAATNLNKNSSAKGADDKVVQLNANTHLKIDNFKADDFGTM 360
QY 361 VRTNGKQDDMSIELNGIEANHGKFPALVKSDSDLLKATGNIAMTDVKHAYDKTQASTQ 420
DB 361 VRTNGKQDDMSIELNGIEANHGKFPALVKSDSDLLKATGNIAMTDVKHAYDKTQASTQ 420
QY 421 HTEL 424
DB 421 HTEL 424

RESULT 6
US-10-847-142-9
; Sequence 9, Application US/10847142
; Publication No. US20040265442A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/197
; CURRENT APPLICATION NUMBER: US/10/847,142
; CURRENT FILING DATE: 2004-05-17
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: 09/835,684
; PRIOR FILING DATE: 2001-04-16
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-847-142-9

Query Match 100.0%; Score 2200; DB 16; Length 424;
Best Local Similarity 100.0%; Pred. No. 1.2e-138;
Matches 424; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSIGITPRPQTTTLPDPSALSGKSPQNTFGEQNTQQAIDPSALLFGSDTKDQVNFQTP 60
DB 1 MSIGITPRPQTTTLPDPSALSGKSPQNTFGEQNTQQAIDPSALLFGSDTKDQVNFQTP 60

QY 61 DSTVQNPQDASKPNDQSNTAKLISALIMSLLOMLTNSNKKQDTPNQBPQSQAPPQNGG 120
DB 61 DSTVQNPQDASKPNDQSNTAKLISALIMSLLOMLTNSNKKQDTPNQBPQSQAPPQNGG 120

QY 121 LGTPSADSGGGTDPATCGGGGTPSATGGGGTTPATCGGGGGGTTATCGGSGGT 180
DB 121 LGTPSADSGGGTDPATCGGGGTPSATGGGGTTPATCGGGGGGTTATCGGSGGT 180

QY 181 PTATGCGGEGVTPQITPOLANPNRTSGTGSVSDTAGSTEQAGKINNVKDTIKVGAQVFD 240
DB 181 PTATGCGGEGVTPQITPOLANPNRTSGTGSVSDTAGSTEQAGKINNVKDTIKVGAQVFD 240

QY 241 GHGATFTADKSMGNGDQGENQKPMFELABGATLKNVNLGENEVDGIHVAKNAQEVITDN 300
DB 241 GHGATFTADKSMGNGDQGENQKPMFELABGATLKNVNLGENEVDGIHVAKNAQEVITDN 300

QY 301 VHAQNVGEDLITVKGEGAAVTNLIKNSSAKGADDKVQVQNLNANTHLKIDNFKADDFGTM 360
DB 301 VHAQNVGEDLITVKGEGAAVTNLIKNSSAKGADDKVQVQNLNANTHLKIDNFKADDFGTM 360

QY 361 VRTNGGKQFDDMSIELNGIEANHGKFAVLSKSDSLKATGNIAMTDVKHAYDKTOASTQ 420
DB 361 VRTNGGKQFDDMSIELNGIEANHGKFAVLSKSDSLKATGNIAMTDVKHAYDKTOASTQ 420

QY 421 HTEL 424
DB 421 HTEL 424

RESULT 7

US-09-835-684-5
; Sequence 5, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Renick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835.684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-835-684-5

Query Match 25.4%; Score 559; DB 9; Length 447;
Best Local Similarity 36.1%; Pred. No. 3.5e-29;
Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;

QY 72 KPNDQS--NIAKLISALIMSLLOMLTNSNKKQDTPNQBPQSQAPPQNGGLG----- 122
DB 37 QPIDRQTIQMAQLLAELKSL---LSPQSNATGAGNDQTTGVGNAGLNKRKGTAG 93

QY 123 -TPSADS-----GGGG-----TPDATGGGG-GDTP-----SATGGG 151
DB 94 TTPQSDSQNMLSEMGNGNGLDQAITPDGQGGQIGDNPFLKAMUKLIARMMDGSDQFGQP 153

QY 152 GGDTPATCGGSGGGTPTATCGG---SGGTPTATGGGEGVTPQITPOL-----A 200
DB 154 GTGNNSASSGTSSSGSPDNLGGKAPSGNSGNSPVSTPTSPDLPFP 213

QY 201 NPNRTSG-----TGSVSDTAGS---TEQAGKINNVKDTIKVGAQVFDGKGAT 245
DB 214 SPTKAAGGSTPTVDHPDPVGSAGIGAGNSVAFTSAGANTVLHDTITVRKAGQVDFGKGT 273

QY 246 FTADKSMGNGDQGENQKPMFELABGATLKNVNLGENEVDGIHVAKNAQEVITDNVHAQN 305
DB 274 FTAGSELGQGGQSENQKPLFILEDGAASKNVMTMGDDGADGIHLYG---DAKIDNLHVTN 329

QY 306 VGEDLITVKGEGAAVTNLIKNSSAKGADDKVQVQNLNANTHLKIDNFKADDFGTMVRTNG 365
DB 330 VGEDALITVPKNPAGKSHVEITNSSPEHASDKILQNLNADTNLSVDNVKAKDFGTFVRTNG 389

QY 366 GKQFDDMSIELNGIEANHGKFAVLSKSDSLKATGNIAMTDVKHAY 412
DB 390 GQQ-GNWDNLNLSHISAEDGKFSFKSDSEGLNVNTSDISLGDVENHY 435

RESULT 8

US-09-880-371-5
; Sequence 5, Application US/09880371
; Patent No. US20020059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: DeRoche, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-880-371-5

Query Match 25.4%; Score 559; DB 9; Length 447;
Best Local Similarity 36.1%; Pred. No. 3.5e-29;
Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;

QY 72 KPNDQS--NIAKLISALIMSLLOMLTNSNKKQDTPNQBPQSQAPPQNGGLG----- 122
DB 37 QPIDRQTIQMAQLLAELKSL---LSPQSNATGAGNDQTTGVGNAGLNKRKGTAG 93

QY 123 -TPSADS-----GGGG-----TPDATGGGG-GDTP-----SATGGG 151
DB 94 TTPQSDSQNMLSEMGNGNGLDQAITPDGQGGQIGDNPFLKAMUKLIARMMDGSDQFGQP 153

QY 152 GGDTPATCGGSGGGTPTATCGG---SGGTPTATGGGEGVTPQITPOL-----A 200
DB 154 GTGNNSASSGTSSSGSPDNLGGKAPSGNSGNSPVSTPTSPDLPFP 213

QY 201 NPNRTSG-----TGSVSDTAGS---TEQAGKINNVKDTIKVGAQVFDGKGAT 245
DB 214 SPTKAAGGSTPTVDHPDPVGSAGIGAGNSVAFTSAGANTVLHDTITVRKAGQVDFGKGT 273

QY 246 FTADKSMGNGDQGENQKPMFELABGATLKNVNLGENEVDGIHVAKNAQEVITDNVHAQN 305
DB 274 FTAGSELGQGGQSENQKPLFILEDGAASKNVMTMGDDGADGIHLYG---DAKIDNLHVTN 329

QY 306 VGEDLITVKGEGAAVTNLIKNSSAKGADDKVQVQNLNANTHLKIDNFKADDFGTMVRTNG 365
DB 330 VGEDALITVPKNPAGKSHVEITNSSPEHASDKILQNLNADTNLSVDNVKAKDFGTFVRTNG 389

QY 366 GKQFDDMSIELNGIEANHGKFAVLSKSDSLKATGNIAMTDVKHAY 412

Db 390 GQQ-GNWDNLNLSHISAEDGKFSVKSSEGLNVNTSDISLGDVENHY 435

RESULT 9

US-09-879-248-6

; Sequence 6, Application US/09879248

; Patent No. US20030104979A1

; GENERAL INFORMATION:

; APPLICANT: Fan, Hao

; APPLICANT: Wei, Zhong-Min

; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE

; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: 21829/81

; CURRENT APPLICATION NUMBER: US/09/879,248

; CURRENT FILING DATE: 2001-06-12

; PRIOR APPLICATION NUMBER: 60/212,211

; PRIOR FILING DATE: 2000-06-16

; NUMBER OF SEQ ID NOS: 18

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 6

; LENGTH: 447

; TYPE: PRT

; ORGANISM: Erwinia amylovora

US-09-879-248-6

Query Match 25.4%; Score 559; DB 9; Length 447;

Best Local Similarity 36.1%; Pred. No. 3.5e-29;

Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;

QY 72 KPDSQS--NIAKLISALIMSLQMLTNSNKQDTNQEQDPSQAPFQNGGLG-----122

Db 37 QPIDRQTIEQMAQLLAELLKSL---LSPQSGNAATGAGGNDQTTGVGNAGGLNGRKGATG 93

QY 123 -TPSADS-----GGGG-----TPDATGGG-GDTP-----SATGGG 151

Db 94 TTPQSDSQNMLSEMNGNGLDQAITPDGQGGQIGDNPLLKAMLKLIARMDGSDQDFGQ 153

QY 152 GGDTPATGGGSGGGGTPATGGG---SGTPTATGGEGGVTPQITPOL-----A 200

Db 154 GTGNSSASGTSSTSGGSPFNDLSGGKAPSGNSPVSFTSPSTPTSPSTPLDPPS 213

QY 201 NPNRTSG-----TGSVSDTAGS-----TEQAGKINVVKDTIKVAGVFDGHGAT 245

Db 214 SPTKAAGGSTPVTDPHPDVGSGAGIGAGNSVAFTSAGANTVLHDTITVKAGQVFDKGQT 273

QY 246 FTADKSMGNGDQGNQKPMFELAEATLKNVNLGENEVDGIHVAKNAQAEVTIDNVHAQN 305

Db 274 FTAGSELGDDGGQSEKQKPLFILEDGASLKNVTMGDDGADGIHLG---DAKIDNLHVTN 329

QY 306 VGEDLIITVKGEGGAATNLNKNSSAKGADDKVQVQLNANTHLKIDNFKADDFGTWVRTNG 365

Db 330 VGEDAITVKPNSAGKSHVEITNSSFEHASDKILQLNADTNLSVDNVKAKDFGTFTVRTNG 389

QY 366 GKQFDDMSIELNGIEANHGKFPALVKSDSDLLKLATGNIAMTDVKHAY 412

Db 390 GQQ-GNWDNLNLSHISAEDGKFSVKSSEGLNVNTSDISLGDVENHY 435

RESULT 10

US-10-010-390-5

; Sequence 5, Application US/10010390

; Publication No. US20030104979A1

; GENERAL INFORMATION:

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Leon, Ernesto

; APPLICANT: Oviedo, Agustín

; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED

; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS

; FILE REFERENCE: 21829/111

; CURRENT APPLICATION NUMBER: US/10/010,390

; CURRENT FILING DATE: 2001-11-05

; PRIOR APPLICATION NUMBER: 60/248,169

; PRIOR FILING DATE: 2000-11-13

; NUMBER OF SEQ ID NOS: 14

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 5

; LENGTH: 447

; TYPE: PRT

; ORGANISM: Erwinia amylovora

US-10-010-390-5

Query Match

Best Local Similarity

Matches 147; Conservative

QY 72 KPDSQS--NIAKLISALIMSLQMLTNSNKQDTNQEQDPSQAPFQNGGLG-----122

Db 37 QPIDRQTIEQMAQLLAELLKSL---LSPQSGNAATGAGGNDQTTGVGNAGGLNGRKGATG 93

QY 123 -TPSADS-----GGGG-----TPDATGGG-GDTP-----SATGGG 151

Db 94 TTPQSDSQNMLSEMNGNGLDQAITPDGQGGQIGDNPLLKAMLKLIARMDGSDQDFGQ 153

QY 152 GGDTPATGGGSGGGGTPATGGG---SGTPTATGGEGGVTPQITPOL-----A 200

Db 154 GTGNSSASGTSSTSGGSPFNDLSGGKAPSGNSPVSFTSPSTPTSPSTPLDPPS 213

QY 201 NPNRTSG-----TGSVSDTAGS-----TEQAGKINVVKDTIKVAGVFDGHGAT 245

Db 214 SPTKAAGGSTPVTDPHPDVGSGAGIGAGNSVAFTSAGANTVLHDTITVKAGQVFDKGQT 273

QY 246 FTADKSMGNGDQGNQKPMFELAEATLKNVNLGENEVDGIHVAKNAQAEVTIDNVHAQN 305

Db 274 FTAGSELGDDGGQSEKQKPLFILEDGASLKNVTMGDDGADGIHLG---DAKIDNLHVTN 329

QY 306 VGEDLIITVKGEGGAATNLNKNSSAKGADDKVQVQLNANTHLKIDNFKADDFGTWVRTNG 365

Db 330 VGEDAITVKPNSAGKSHVEITNSSFEHASDKILQLNADTNLSVDNVKAKDFGTFTVRTNG 389

QY 366 GKQFDDMSIELNGIEANHGKFPALVKSDSDLLKLATGNIAMTDVKHAY 412

Db 390 GQQ-GNWDNLNLSHISAEDGKFSVKSSEGLNVNTSDISLGDVENHY 435

RESULT 11

US-10-441-736-6

; Sequence 6, Application US/10441736

; Publication No. US20040016029A1

; GENERAL INFORMATION:

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Schading, Richard L.

; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS

; FILE REFERENCE: 21829/203 (EBC-003)

; CURRENT APPLICATION NUMBER: US/10/441,736

; CURRENT FILING DATE: 2003-05-20

; PRIOR APPLICATION NUMBER: 60/107,243

; PRIOR FILING DATE: 1998-11-05

; PRIOR APPLICATION NUMBER: 09/431,614

; PRIOR FILING DATE: 1999-11-02

; NUMBER OF SEQ ID NOS: 18

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 6

; LENGTH: 447

; TYPE: PRT

; ORGANISM: Erwinia amylovora

US-10-441-736-6

Query Match

Best Local Similarity

Matches 147; Conservative

QY 72 KPDSQS--NIAKLISALIMSLQMLTNSNKQDTNQEQDPSQAPFQNGGLG-----122

Db 37 QPIDRQTIEQMAQLLAELLKSL---LSPQSGNAATGAGGNDQTTGVGNAGGLNGRKGATG 93

Qy 123 -TPSADS-----GGGG-----TPDATGGG-GDTP-----SATGGG 151
Db 94 TTPQSDSQNMLSEMNGNGLDQAITPDGQGGQIGNPLLKAMLKLIARMMDGQSDQFQOP 153
Qy 152 GGDPTATGGGSGGGGTPTATGG--SGGTPTATGGGGVTPQITPOL-----A 200
Db 154 GTGNNSASGTSSSGSGSPNDLSGGKAPSGNSPGNSYSPVSTFPSTPTPTSPPLDPPS 213
Qy 201 NPNRTSG-----TGSVSDTAGS-----TEQAGKINVVKDTIKVAGGEVDFGHGAT 245
Db 214 SPTRKAAGGSTPVTDHPDPVGSAGIGAGNSVAFSTAGANQTVLHDTITVKAGQVDFGKGT 273
Qy 246 FTADKSMNGDQGENOKPMFELABGATLKNVNLGENEVDGIHVAKNAQEVITIDNVHAQN 305
Db 274 FTAGSELGGGQSENGKFLFLEDGASLKNVTMGDDGADGIHLG-----DAKIDNLHVTN 329
Qy 306 VGEDLITVKGEGGAATVNLNKNSSAKGADKVVQVQNLNANTHLKIDNPKADDFGTMVTRNG 365
Db 330 VGEDAITVKNPSAGKSHVEITNSSFHASDKILQNLNADTNLSVDNVKAKDFGTFVTRNG 389
Qy 366 GKQFDDMSIELNGIEANHGKFPALVKSDSDDLKLATGNIAMTIDVKHAY 412
Db 390 GQO-GNWDNLNLSHISAEDGKFSFKVSDSEGLNVNTSDISLGDVENHY 435
RESULT 12
US-10-847-142-5
; Sequence 5, Application US/10847142
; Publication No. US20040265442A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESSICATION
; FILE REFERENCE: 21829/197
; CURRENT APPLICATION NUMBER: US/10/847,142
; CURRENT FILING DATE: 2004-05-17
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: 09/835,684
; PRIOR FILING DATE: 2001-04-16
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-847-142-5

Query Match 25.4%; Score 559; DB 16; Length 447;
Best Local Similarity 36.1%; Pred. No. 3.5e-29;
Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;
Qy 72 KNDQS--NIAKLISALIMSLQMLTNSKKQDTPNQSDPQSQPFQNGGLG-----122
Db 37 QPIDRQTIEQAQLLAELKSL---LSQSGNAATGAGGNDQTTGVNAGGLNGRKGATG 93
Qy 123 -TPSADS-----GGGG-----TPDATGGG-GDTP-----SATGGG 151
Db 94 TTPQSDSQNMLSEMNGNGLDQAITPDGQGGQIGNPLLKAMLKLIARMMDGQSDQFQOP 153
Qy 152 GGDPTATGGGSGGGGTPTATGG--SGGTPTATGGGGVTPQITPOL-----A 200
Db 154 GTGNNSASGTSSSGSGSPNDLSGGKAPSGNSPGNSYSPVSTFPSTPTSPPLDPPS 213
Qy 201 NPNRTSG-----TGSVSDTAGS-----TEQAGKINVVKDTIKVAGGEVDFGHGAT 245
Db 214 SPTRKAAGGSTPVTDHPDPVGSAGIGAGNSVAFSTAGANQTVLHDTITVKAGQVDFGKGT 273
Qy 246 FTADKSMNGDQGENOKPMFELABGATLKNVNLGENEVDGIHVAKNAQEVITIDNVHAQN 305

Db 274 FTAGSELGGGQSENGKFLFLEDGASLKNVTMGDDGADGIHLG-----DAKIDNLHVTN 329
Qy 306 VGEDLITVKGEGGAATVNLNKNSSAKGADKVVQVQNLNANTHLKIDNPKADDFGTMVTRNG 365
Db 330 VGEDAITVKNPSAGKSHVEITNSSFHASDKILQNLNADTNLSVDNVKAKDFGTFVTRNG 389
Qy 366 GKQFDDMSIELNGIEANHGKFPALVKSDSDDLKLATGNIAMTIDVKHAY 412
Db 390 GQO-GNWDNLNLSHISAEDGKFSFKVSDSEGLNVNTSDISLGDVENHY 435
RESULT 13
US-10-355-956-2
; Sequence 2, Application US/10355956
; Publication No. US20040006789A1
; GENERAL INFORMATION:
; APPLICANT: Collmer, Alan
; APPLICANT: Ramos, Adela
; TITLE OF INVENTION: PSEUDOMONAS SYRINGAE HARPINS, HOPPTOP AND HOPPMAPTO,
; TITLE OF INVENTION: AND THEIR USES
; FILE REFERENCE: 19603/4160
; CURRENT APPLICATION NUMBER: US/10/355,956
; CURRENT FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: 60/356,408
; PRIOR FILING DATE: 2002-02-12
; PRIOR APPLICATION NUMBER: 60/380,185
; PRIOR FILING DATE: 2002-05-10
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-355-956-2

Query Match 12.9%; Score 283.5; DB 15; Length 324;
Best Local Similarity 28.1%; Pred. No. 5.7e-11;
Matches 103; Conservative 36; Mismatches 118; Indels 109; Gaps 16;
Qy 1 MSIGITPRPOQTTPPLDPSALSGKSPQNTFGEQNTQOAIIDPSALLFGSDTKQDVNFGTP 60
Db 1 MTMGVSPIRNSNSLPIDFSSLSAKSGHNGLG-SGDNSTIDPSTLLFCNOGQQTQVNFAPP 59
Qy 61 DSTVONQDASKNDQSNIKLIISALIMSLQMLTNSKKQDTPNQSDPQSQPFQNGG 120
Db 60 NST---DSTSGVNAASGNTASGLVQIMSLKQL-----MQLMQLNNNA 101
Qy 121 LGTPSADSG--GGTPTATGGGGDTPSATGGGGGDTPTATGGGGGGGGTPTATGGGG 178
Db 102 SGNPQDSTTPGVSGNSVSGGTGS--SLAGSDGDETSVGNGGLGDAGS--TPTTSAAD 159
Qy 179 GTPPATG--GEGGV--TPQITPOLANPNRTSGTGSVSDTAGST-----EONGK 223
Db 160 GVPSDTSLTSGGLHLPOOLEQY-----RGDINDAAKATGVPPSPVIAQIWAESRGQ 211
Qy 224 INVVKDTI--KVAG-----EVPDGH-----GATFTADKSMGN 254
Db 212 LNAATTNVNGKADAGLMQVNAADTFKSLQQNQNPGLLGNVDNSHNTINMAGADYILRDQKEF 271
Qy 255 GDQGENQKPMFELABGATLKNVNLGENEVDGIHVAKNAQEVITIDNVHAQNVDGLITVK 314
Db 272 GDM-----GAALRAYNSGPKVN-----KA-----DLSDTG 297
Qy 315 GEGGAA 320
Db 298 GVGSS 303

RESULT 14
US-10-504-048-2
; Sequence 2, Application US/10504048
; Publication No. US20050120409A1
; GENERAL INFORMATION:

APPLICANT: Collmer, Alan
APPLICANT: Ramos, Adela
TITLE OF INVENTION: PSEUDOMONAS SYRINGAE HARPINS, HopTop AND HopPmaHptco,
FILE OF INVENTION: AND THEIR USES
FILE REFERENCE: 19603/4162
CURRENT FILING DATE: 2004-08-09
CURRENT APPLICATION NUMBER: US/10/504,048
PRIOR FILING DATE: 2002-02-12
PRIOR APPLICATION NUMBER: 60/356,408
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: 60/380,185
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: PCT/US03/03165
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 324
TYPE: PRT
ORGANISM: Pseudomonas syringae
US-10-504-048-2

Query Match 12.9%; Score 283.5; DB 17; Length 324;
Best Local Similarity 28.1%; Pred. No. 5.7e-11;
Matches 103; Conservative 36; Mismatches 118; Indels 109; Gaps 16;

QY 1 MSIGITPRPOQTTPPLDPSALSCKSPQPNFTFGEQNTQQAIDPSALLFGSDTQKDVNFGTP 60
DB 1 MTWGVSPIRNSNSLPIDFSLSAKSGHNLG-SGDNSTIDPSTLLFGNGQGTQVNFAPP 59
QY 61 DSTVQNPQDAKPNDSQNSIAKLISALIMSLQMLTNSNKKQDNTQEQPDSQAPFONNGG 120
DB 60 NST---DSSTSGVNAASGNTASGLVEQIMSLKQL-----MQMLQNNNA 101
QY 121 LGTPSADSG--GGTTPDATGGGGGDPFATGGGGGTPATGGGGGGGGTPTATGGSG 178
DB 102 SGNPQDSDSTPGVSGNSVSGGTGS-SLAGSDGDETSGVNGGLDAGS-TPTTSAAD 159
QY 179 GTPATG-GEQGV-TPOITPOLANPNRTSGTSVSDTAGST-----EQACK 223
DB 160 GVPSDTSLTSGSGLHLPQLEQY-----RGDMDAAKATGVPSPVIAGQIWAESRG 211
QY 224 INVVKDTI--KVGAG-----EVFDGH-----GATFTADKSMGN 254
DB 212 LNAATTNVNGKADAGLMQVNAADTFKSLQOONPCLLNDVNDSTNIMAGALYLRDQKEF 271
QY 255 GDOGENQKPMFELAEAGATKNNVLGENEVDGIHVKAQNAOEVTIDNVHAQNVGEDLITVK 314
DB 272 GDM-----GAALRAYNSGDPKVN---KA-----DLSDTG 297
QY 315 GEGGAA 320
DB 298 GVGSS 303

RESULT 15

US-10-156-761-13910
Sequence 13910, Application US/10156761
Publication No. US20030119018A1
GENERAL INFORMATION:
APPLICANT: OMURA, SATOSHI
APPLICANT: IKEDA, HARUO
APPLICANT: ISHIKAWA, JUN
APPLICANT: HORIKAWA, HIROSHI
APPLICANT: SHIBA, TADAYOSHI
APPLICANT: SAKAKI, YOSHIYUKI
APPLICANT: HATTORI, MASAHIRA
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-262
CURRENT APPLICATION NUMBER: US/10/156,761
CURRENT FILING DATE: 2002-05-29
PRIOR APPLICATION NUMBER: JP 2001-204089
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: JP 2001-272697

PRIOR FILING DATE: 2001-08-02
NUMBER OF SEQ ID NOS: 15109
SEQ ID NO 13910
LENGTH: 276
TYPE: PRT
ORGANISM: Streptomyces avermitilis
US-10-156-761-13910

Query Match 10.3%; Score 227.5; DB 14; Length 276;
Best Local Similarity 33.5%; Pred. No. 2.6e-07;
Matches 66; Conservative 32; Mismatches 84; Indels 15; Gaps 6;

QY 205 TSG---TGSVSDTAG---STEGAGKINVVKDTIKVGCAGEVFDCHGATFTADKSMGNDQ 258
DB 31 TAGALVTTSLSSAGAATSWPEATGSKAVSSTIEVSG--TYDGKLLKFKSGSGLGTADQS 88
QY 259 ENQKPMFELAEAGATKNNVLGENEVDGIHVKAQNAOEVTIDNVHAQNVGEDLITVKEGG 318
DB 89 EDQGPLFELEDGAVLKNVIIGTPAADGVHCLG-----SCTLQNVWLDVGEDAASFKSKSS 144
QY 319 AAVTNLNIKNSSAKGADDKVQVQNLNANTHLKIDNFKADDFGTMYRTNGG-KQFDDMSIELN 377
DB 145 SA--TVKVIKGGGAKSASDKVLQFNAGAGTLTVTGFOVENFGKLVRSNGNCKTQYKRTVWLS 202
QY 378 GIEAHGKFPALVKSDSD 394
DB 203 DIDATAPGKALVGINSN 219

Search completed: July 27, 2005, 15:06:15
Job time : 162 secs

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OM protein - protein search, using sw model

Run on: July 27, 2005, 14:40:58 ; Search time 43 Seconds
(without alignments)
736.074 Million cell updates/sec

Title: US-09-597-513-2

Perfect score: 2200

Sequence: 1 MSIGITPRQQITPLDFA.....MTDVKHAYDKTQASTQHTL 424

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/prodata/1/iaa/5A COMB pep.*
- 2: /cgn2_6/prodata/1/iaa/5B COMB pep.*
- 3: /cgn2_6/prodata/1/iaa/6A COMB pep.*
- 4: /cgn2_6/prodata/1/iaa/6B COMB pep.*
- 5: /cgn2_6/prodata/1/iaa/PCUTS COMB pep.*
- 6: /cgn2_6/prodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	2200	100.0	424	3	US-09-120-817-2
2	2200	100.0	424	4	US-09-431-614-14
3	559	25.4	447	3	US-09-120-927-2
4	559	25.4	447	4	US-09-431-614-6
5	318	14.5	197	3	US-09-402-668-2
6	294.5	13.4	221	3	US-09-198-956-4
7	294.5	13.4	221	4	US-09-670-141-4
8	222	10.1	878	4	US-09-540-236-3401
9	191.5	8.7	526	4	US-09-538-092-1080
10	179.5	8.2	941	3	US-09-336-447A-9
11	179.5	8.2	941	4	US-09-952-267B-9
12	178	8.1	857	4	US-09-502-540-12312
13	178	8.1	867	4	US-09-540-236-2676
14	177.5	8.1	2870	4	US-09-479-467A-15
15	177.5	8.1	3178	4	US-09-479-467A-4
16	174.5	7.9	444	4	US-09-902-540-12378
17	171.5	7.8	637	4	US-09-248-796A-19134
18	171.5	7.8	892	3	US-09-336-447A-5
19	171.5	7.8	892	4	US-09-952-267B-5
20	169.5	7.7	556	4	US-09-248-796A-22338
21	169	7.7	201	3	US-09-052-995-1
22	169	7.7	201	3	US-09-053-003-40
23	169	7.7	201	4	US-09-054-281-22
24	169	7.7	201	4	US-09-478-948-6
25	169	7.7	201	4	US-09-818-094-40
26	169	7.7	201	4	US-09-754-947-5
27	169	7.7	269	1	US-08-452-531-4

28	169	7.7	269	1	US-08-460-746A-4	Sequence 4, Appli
29	169	7.7	269	2	US-08-460-553-4	Sequence 4, Appli
30	169	7.7	269	3	US-08-460-066-4	Sequence 4, Appli
31	168.5	7.7	2504	4	US-09-328-352-5821	Sequence 5821, Ap
32	168	7.6	326	4	US-09-270-767-43241	Sequence 43241, A
33	166.5	7.6	464	4	US-09-252-991A-24883	Sequence 24883, A
34	163.5	7.4	344	1	US-08-891-254-7	Sequence 7, Appli
35	163.5	7.4	344	2	US-08-819-539-7	Sequence 7, Appli
36	163.5	7.4	344	3	US-09-030-270A-7	Sequence 7, Appli
37	163.5	7.4	344	4	US-08-984-207-7	Sequence 7, Appli
38	163.5	7.4	344	3	US-09-013-587-7	Sequence 7, Appli
39	163.5	7.4	344	4	US-09-086-118-27	Sequence 27, Appli
40	163.5	7.4	344	4	US-09-431-614-15	Sequence 15, Appli
41	163.5	7.4	344	5	PCT-US96-08819-7	Sequence 7, Appli
42	162	7.4	571	3	US-09-134-001C-3865	Sequence 3865, Ap
43	161.5	7.3	100	4	US-09-411-067C-4	Sequence 4, Appli
44	161.5	7.3	462	4	US-09-919-039-324	Sequence 324, App
45	160.5	7.3	831	3	US-09-336-447A-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-09-120-817-2
; Sequence 2, Application US/09120817
; Patent No. 6172184
; GENERAL INFORMATION:
; APPLICANT: Collmer, Alan
; APPLICANT: Charkowski, Amy
; APPLICANT: Alfano, James R.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM
; TITLE OF INVENTION: PSEUDOMONAS SYRINGAE AND ITS USE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/120,817
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/055,107
; FILING DATE: 06-AUG-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1741
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 424 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-120-817-2

cleansed
and then

Query Match 100.0%; Score 2200; DB 3; Length 424;
Best Local Similarity 100.0%; Pred. No. 1e-169;
Matches 424; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSIGITPRPQQTTPDPSALSGKSPQNTFGEQNTQQAIDPSALLFGSDTKQVNFCTP 60
DB 1 MSIGITPRPQQTTPDPSALSGKSPQNTFGEQNTQQAIDPSALLFGSDTKQVNFCTP 60
QY 61 DSTVQNPQDASKPNDQSQNIAKLISALIMSLQLMTNSKKQDNTNOEQPDSQAPFNNGG 120
DB 61 DSTVQNPQDASKPNDQSQNIAKLISALIMSLQLMTNSKKQDNTNOEQPDSQAPFNNGG 120
QY 121 LGTPSADSGGGTTPDATGGGGGDTPSATGGGGGDTPTATGGGGGGTPTATGGSGGT 180
DB 121 LGTPSADSGGGTTPDATGGGGGDTPSATGGGGGDTPTATGGGGGGTPTATGGSGGT 180
QY 181 PTATGGGGGVTPQITPOLANPNRTSGTSGVSDTAGSTEQAGKINNVKDTIKVAGAEVFD 240
DB 181 PTATGGGGGVTPQITPOLANPNRTSGTSGVSDTAGSTEQAGKINNVKDTIKVAGAEVFD 240
QY 241 GHGATFTADKSMNGDQGENQKPMFELAEAGATLKNVNLGENEVDGIHVKAQNAQEVITDN 300
DB 241 GHGATFTADKSMNGDQGENQKPMFELAEAGATLKNVNLGENEVDGIHVKAQNAQEVITDN 300
QY 301 VHAQNVGDLITVKGEGGAATVNLNIKNSSAKGADDKVQVQVQVQVQVQVQVQVQVQVQV 360
DB 301 VHAQNVGDLITVKGEGGAATVNLNIKNSSAKGADDKVQVQVQVQVQVQVQVQVQVQVQV 360
QY 361 VRTNGGKQFDDMSIELNGIEANHGKFPALVKSDSDLLKATGNIAMTDVKHAYDKTQASTQ 420
DB 361 VRTNGGKQFDDMSIELNGIEANHGKFPALVKSDSDLLKATGNIAMTDVKHAYDKTQASTQ 420
QY 421 HTEL 424
DB 421 HTEL 424

RESULT 2

US-09-431-614-14
; Sequence 14, Application US/09431614
; Patent No. 6624139
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Schading, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; TITLE OF INVENTION: RESISTANCE
; FILE REFERENCE: 21829/41 (EBC-003)
; CURRENT APPLICATION NUMBER: US/09/431,614
; CURRENT FILING DATE: 1999-11-02
; EARLIER APPLICATION NUMBER: 60/107,243
; EARLIER FILING DATE: 1998-11-05
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-09-431-614-14

Query Match 100.0%; Score 2200; DB 4; Length 424;
Best Local Similarity 100.0%; Pred. No. 1e-169;
Matches 424; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSIGITPRPQQTTPDPSALSGKSPQNTFGEQNTQQAIDPSALLFGSDTKQVNFCTP 60
DB 1 MSIGITPRPQQTTPDPSALSGKSPQNTFGEQNTQQAIDPSALLFGSDTKQVNFCTP 60
QY 61 DSTVQNPQDASKPNDQSQNIAKLISALIMSLQLMTNSKKQDNTNOEQPDSQAPFNNGG 120
DB 61 DSTVQNPQDASKPNDQSQNIAKLISALIMSLQLMTNSKKQDNTNOEQPDSQAPFNNGG 120
QY 121 LGTPSADSGGGTTPDATGGGGGDTPSATGGGGGDTPTATGGGGGGTPTATGGSGGT 180
DB 121 LGTPSADSGGGTTPDATGGGGGDTPSATGGGGGDTPTATGGGGGGTPTATGGSGGT 180
QY 181 PTATGGGGGVTPQITPOLANPNRTSGTSGVSDTAGSTEQAGKINNVKDTIKVAGAEVFD 240

DB 181 PTATGGGGGVTPQITPOLANPNRTSGTSGVSDTAGSTEQAGKINNVKDTIKVAGAEVFD 240
QY 241 GHGATFTADKSMNGDQGENQKPMFELAEAGATLKNVNLGENEVDGIHVKAQNAQEVITDN 300
DB 241 GHGATFTADKSMNGDQGENQKPMFELAEAGATLKNVNLGENEVDGIHVKAQNAQEVITDN 300
QY 301 VHAQNVGDLITVKGEGGAATVNLNIKNSSAKGADDKVQVQVQVQVQVQVQVQVQVQVQV 360
DB 301 VHAQNVGDLITVKGEGGAATVNLNIKNSSAKGADDKVQVQVQVQVQVQVQVQVQVQVQV 360
QY 361 VRTNGGKQFDDMSIELNGIEANHGKFPALVKSDSDLLKATGNIAMTDVKHAYDKTQASTQ 420
DB 361 VRTNGGKQFDDMSIELNGIEANHGKFPALVKSDSDLLKATGNIAMTDVKHAYDKTQASTQ 420
QY 421 HTEL 424
DB 421 HTEL 424

RESULT 3

US-09-120-927-2
; Sequence 2, Application US/09120927
; Patent No. 6262018
; GENERAL INFORMATION:
; APPLICANT: Kim, Jihyun Francis
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM
; TITLE OF INVENTION: ERWINIA AMYLOVORA AND ITS USE
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/120,927
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/055,108
; FILING DATE: 06-AUG-1977
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1581
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 447 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-120-927-2

Query Match 25.4%; Score 559; DB 3; Length 447;
Best Local Similarity 36.1%; Pred. No. 4.1e-37;
Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;
QY 72 KPNDQS--NIAKLISALIMSLQLMTNSKKQDNTNOEQPDSQAPFNNGG----- 122
DB 37 QPIDRQTEIQWQLLAELKSL---LSPQSGNAATGAGGNDQTTGVGNAGLNGRKGTAG 93
QY 123 -TPSADS-----GGGG-----TPDATGGG-GDTP-----SATGGG 151

Db 94 TTPOSQONMLSENGNGLDQAITPDGCGGQIGDNFLLKMLKLIARMWDGQSDQGP 153
Qy 152 GGDPTATGGGGGGGTPATGGG---SGGTATGCGGGVTPQITPOL-----A 200
Db 154 GTGNNSASSGTSSTSSGSPFNLDLGGKAPSGNSPGNSPVSTFSPSTPTSPPLDPPS 213
Qy 201 NPNRTSG-----TGSVSDTAGS---TEQAGKINVVKDTIKVAGEVDFGHGAT 245
Db 214 SPTKAAGSGSTVTPDHPDPVGSAGIGAGNSVAFTSAGANQTVLHDTITVKAGQVDFGKGT 273
Qy 246 FTADKSMGNGDQGENQKPMFELAEATLKNVNLGENEVDGIHVAKNAQEVTTIDNVHAQN 305
Db 274 FTAGSELGCGQSENQKPLFILEDGASLKNVTMGDDGADGHLHG-----DAKIDNLUHTN 329
Qy 306 VGBDLITVKGEGGAATVNLNKNSSAKGADDDKVVQLNANTHLKIDNFKADDFGTMVRTNG 365
Db 330 VGEDAITVKPNSAGKSHVEITNSFEHASKILQLNADTNLSVDNVKAKDFGTFVRTNG 389
Qy 366 GKQFDDMSIELNGIEANHGKFAVYKSDSDDLKLATGNIAMTDVKHAY 412
Db 390 GQQ-GNWDNLNLSHISAEDGKFSFVKSDSEGLNVTNTSDISLGDVENHY 435

RESULT 4

US-09-431-614-6
; Sequence 6, Application US/09431614
; Patent No. 6624139
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Schading, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; FILE OF INVENTION: RESISTANCE
; FILE REFERENCE: 21829/41 (EBC-003)
; CURRENT APPLICATION NUMBER: US/09/431.614
; CURRENT FILING DATE: 1999-11-02
; EARLIER APPLICATION NUMBER: 60/107,243
; EARLIER FILING DATE: 1998-11-05
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 6
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-09-431-614-6

Query Match 25.4%; Score 559; DB 4; Length 447;
Best Local Similarity 36.1%; Pred. No. 4.1e-37;
Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;

Qy 72 KPNDQS--NIAKLISALIMSLLOMLTNSKKQDTNQEQPDSPQAPQNGGLG----- 122
Db 37 QPIDROTIEOQAOLLAELKSL---LSPQSGNAATGAGNDQTTGVGNAGGLNGRKGATG 93
Qy 123 -TPSADS-----GGGG-----TPDATGGG-GDTP-----SATGGG 151
Db 94 TTPOSQONMLSENGNGLDQAITPDGCGGQIGDNFLLKMLKLIARMWDGSDQGP 153
Qy 152 GGDPTATGGGGGGGTPATGGG---SGGTATGCGGGVTPQITPOL-----A 200
Db 154 GTGNNSASSGTSSTSSGSPFNLDLGGKAPSGNSPGNSPVSTFSPSTPTSPPLDPPS 213
Qy 201 NPNRTSG-----TGSVSDTAGS---TEQAGKINVVKDTIKVAGEVDFGHGAT 245
Db 214 SPTKAAGSGSTVTPDHPDPVGSAGIGAGNSVAFTSAGANQTVLHDTITVKAGQVDFGKGT 273
Qy 246 FTADKSMGNGDQGENQKPMFELAEATLKNVNLGENEVDGIHVAKNAQEVTTIDNVHAQN 305
Db 274 FTAGSELGCGQSENQKPLFILEDGASLKNVTMGDDGADGHLHG-----DAKIDNLUHTN 329
Qy 306 VGBDLITVKGEGGAATVNLNKNSSAKGADDDKVVQLNANTHLKIDNFKADDFGTMVRTNG 365
Db 330 VGEDAITVKPNSAGKSHVEITNSFEHASKILQLNADTNLSVDNVKAKDFGTFVRTNG 389

Qy 366 GKQFDDMSIELNGIEANHGKFAVYKSDSDDLKLATGNIAMTDVKHAY 412
Db 390 GQQ-GNWDNLNLSHISAEDGKFSFVKSDSEGLNVTNTSDISLGDVENHY 435

RESULT 5

US-09-402-668-2
; Sequence 2, Application US/09402668
; Patent No. 6172030
; GENERAL INFORMATION:
; APPLICANT: WADA, Yasuhiro
; APPLICANT: KASAI, Miyuki
; APPLICANT: SHIKATA, Shitsuw
; APPLICANT: SUZUMATSU, Atsushi
; APPLICANT: KOIKE, Kenzo
; APPLICANT: HATADA, Yuji
; APPLICANT: KOBAYASHI, Tohru
; APPLICANT: ITO, Susumu
; APPLICANT: TSUMADORI, Masaki
; TITLE OF INVENTION: Detergent Composition
; FILE REFERENCE: 2173-0116P
; CURRENT APPLICATION NUMBER: US/09/402,668
; CURRENT FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 9-091142 JAPAN
; PRIOR FILING DATE: 1997-04-09
; PRIOR APPLICATION NUMBER: 9-242736 JAPAN
; PRIOR FILING DATE: 1997-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/01613
; PRIOR FILING DATE: 1998-04-09
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 197
; TYPE: PRT
; ORGANISM: Bacillus sp.
; OTHER INFORMATION: Strain: KSM-P15
US-09-402-668-2

Query Match 14.5%; Score 318; DB 3; Length 197;
Best Local Similarity 40.7%; Pred. No. 4.1e-18;
Matches 74; Conservative 33; Mismatches 61; Indels 14; Gaps 5;

Qy 226 VVKDTIKVAGEVDFGHGATFTAD-KSMNGDQGENQKPMFELAEATLKNVNLGNEVD 284
Db 4 VVHETIRVPAGQTFDGKGTYYVANPNNTLGDGSOAENQKPIFRLEAGASLKNVVGAPAD 63
Qy 285 GIHVAKNAQEVTTIDNVHAQNVGDELITVKGEGGAATVNLNKNSSAKGADDDKVVOLNAN 344
Db 64 GVHCYG-----DCTITNVIWEDVGEDALTUKSSG-----TVNISGGGAAYKAYDKVFOINAA 114
Qy 345 THLKIDNFKADDFGTMVRTNGGKQFDDMSIELNGIEANHGKFAVYKSDSDDLKLATGNIA 404
Db 115 GTINIRNFADDIKGLVRQNGGTTY-KVMNVENCNISRVKDALRTDS---STSTGRIV 170
Qy 405 MT 406
Db 171 NT 172

RESULT 6

US-09-198-956-4
; Sequence 4, Application US/09198956
; Patent No. 6165769
; GENERAL INFORMATION:
; APPLICANT: Andersen, Lene N.
; APPLICANT: Schulein, Martin
; APPLICANT: Lange, Niels Erik K.
; APPLICANT: Bjornvad, Mads E.
; APPLICANT: Schnorr, Kirk
; TITLE OF INVENTION: Pectin Degrading Enzymes From Bacillus
; FILE REFERENCE: 5377.200-US

; CURRENT APPLICATION NUMBER: US/09/198,956
 ; CURRENT FILING DATE: 1998-11-24
 ; EARLIER APPLICATION NUMBER: 1344/97
 ; EARLIER FILING DATE: 1997-11-24
 ; EARLIER APPLICATION NUMBER: 60/067,240
 ; EARLIER FILING DATE: 1997-12-02
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 4
 ; LENGTH: 221
 ; TYPE: PRT
 ; ORGANISM: Bacillus licheniformis
 ; US-09-198-956-4

Query Match 13.4%; Score 294.5; DB 3; Length 221;
 Best Local Similarity 34.6%; Pred. No. 3.8e-16;
 Matches 72; Conservative 38; Mismatches 71; Indels 27; Gaps 5;
 Qy 219 EQAGKINVVKDTIKVAGVFDHGATFTADKSMGNGDQGENQKPMFELAGATLKNVNL 278
 Db 24 EKALAAEVVHKTIIVVEKGTQYDGKRLIAGPELGDGSGREDEKQIFPKVEDGATLKNVNL 83
 Qy 279 GENEVDGHHVAKNAQAEVTIDNVHAQNVGDLITVKGEGGAATVNLINKNSSAKGADDKV 338
 Db 84 GAPADAGVHTYG---NASINNVMWEDVGDALTVKSEG-----SVTINGGSARLAADKI 134
 Qy 339 VOLNANTHLKIDNFKADDFGTMVTRTNGGKQPDMSIELNGTEANHGKALVKSDSDDLKL 398
 Db 135 FOINKASTFTVKNFTADQGGKFIROLGGSTFKAV-VNIDNCTTINMKEAIFRTDS----- 188
 Qy 399 ATGNIAMTD-----VKHAYDK 414
 Db 189 STSSVTMTNTRYSKVGQKWIGVKHATER 216

RESULT 7
 US-09-670-141-4
 ; Sequence 4, Application US/09670141
 ; Patent No. 6429000
 ; GENERAL INFORMATION:
 ; APPLICANT: Andersen, Lene N.
 ; APPLICANT: Schuelein, Martin
 ; APPLICANT: Lange, Niels Erik K.
 ; APPLICANT: Bjornvad, Mads E.
 ; APPLICANT: Schnorr, Kirk
 ; TITLE OF INVENTION: Pectin Degrading Enzymes From Bacillus
 ; FILE REFERENCE: 5377.200-US
 ; CURRENT APPLICATION NUMBER: US/09/670,141
 ; CURRENT FILING DATE: 2000-09-26
 ; PRIOR APPLICATION NUMBER: 09/198,956
 ; PRIOR FILING DATE: 1998-11-24
 ; PRIOR APPLICATION NUMBER: 1344/97
 ; PRIOR FILING DATE: 1997-11-24
 ; PRIOR APPLICATION NUMBER: 60/067,240
 ; PRIOR FILING DATE: 1997-12-02
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 4
 ; LENGTH: 221
 ; TYPE: PRT
 ; ORGANISM: Bacillus licheniformis
 ; US-09-670-141-4

Query Match 13.4%; Score 294.5; DB 4; Length 221;
 Best Local Similarity 34.6%; Pred. No. 3.8e-16;
 Matches 72; Conservative 38; Mismatches 71; Indels 27; Gaps 5;
 Qy 219 EQAGKINVVKDTIKVAGVFDHGATFTADKSMGNGDQGENQKPMFELAGATLKNVNL 278
 Db 24 EKALAAEVVHKTIIVVEKGTQYDGKRLIAGPELGDGSGREDEKQIFPKVEDGATLKNVNL 83
 Qy 279 GENEVDGHHVAKNAQAEVTIDNVHAQNVGDLITVKGEGGAATVNLINKNSSAKGADDKV 338

Db 84 GAPADAGVHTYG---NASINNVMWEDVGDALTVKSEG-----SVTINGGSARLAADKI 134
 Qy 339 VOLNANTHLKIDNFKADDFGTMVTRTNGGKQPDMSIELNGTEANHGKALVKSDSDDLKL 398
 Db 135 FOINKASTFTVKNFTADQGGKFIROLGGSTFKAV-VNIDNCTTINMKEAIFRTDS----- 188
 Qy 399 ATGNIAMTD-----VKHAYDK 414
 Db 189 STSSVTMTNTRYSKVGQKWIGVKHATER 216

RESULT 8
 US-09-540-236-3401
 ; Sequence 3401, Application US/09540236
 ; Patent No. 6673910
 ; GENERAL INFORMATION:
 ; APPLICANT: Gary L. Breton et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CAT
 ; FILE REFERENCE: 2709.2005-001
 ; CURRENT APPLICATION NUMBER: US/09/540,236
 ; CURRENT FILING DATE: 2000-04-04
 ; NUMBER OF SEQ ID NOS: 3840
 ; SEQ ID NO 3401
 ; LENGTH: 878
 ; TYPE: PRT
 ; ORGANISM: M. catarrhalis
 ; US-09-540-236-3401

Query Match 10.1%; Score 222; DB 4; Length 878;
 Best Local Similarity 25.1%; Pred. No. 1.7e-09;
 Matches 106; Conservative 58; Mismatches 140; Indels 118; Gaps 23;
 Qy 81 AKLISALIMSLLOMLTNSNKKQDTNQ-----EOPDSOAPFO-----NNGGLGTPSA 126
 Db 32 AVLGLLIIVGILGNATTASQSKGQGAYTAADQNGKAPGEYFVGGSGNEAKGNYST 91
 Qy 127 DSGG-----GGTDPATGGG-----GDTPTSATGG-----GGDTPATGGGGGGGGTPTA 172
 Db 92 ASGGDYNTAEGNYSTASGGSGNEAKGNYSTASGGITNEAKGDYSTVAGGANNKAIGHST 151
 Qy 173 TGGSG-----GTPTATGGGGVTPITPOLANPNRTSGTGSVS---DTAGSTEOA---G 222
 Db 152 VGGNGNKAEGIDSTVAGKN-----NQATGEGSFAAGIDNKANAKNAVAVG 198
 Qy 223 KINVKD-----TIKVGAGEVD-GHGAFTADKS--MGNGDQGENQKPMFELAE 269
 Db 199 KKNIKDENSVAIGSNNTVEGQKNVILGSGTGTVTSNVLNLTAGK-----Q 249
 Qy 270 GATLKNVNLGENEVDGHHV-----AKNAQEVTDNVHAQNVGDLITVKGEGGAATVNLN 325
 Db 250 ATTVKNA-----EVDGLNLTGFAVGSNAGNTV-SVGSQKGERQIVNV-GAGDISATSD 302
 Qy 326 IKSSAKGADDKVVLNANTHLK--IDNFKADDFGTMVTRTNGGKQFD-----MSLNGI 379
 Db 303 AVNGSOLYALAKVADVADNYDILNLDIYNLDD-----GKLDDEVLGEEINSL 354
 Qy 380 EAN--HGKALVKSDSDDLKLATGNIAM-----TDVKHAYDKTQASTQ 420
 Db 355 EGEIFNNQDALAKNQA-DIKTLESNVEEGLDLSGRLLDQKADIDNNINNIYELAAQQDQ 413
 Qy 421 HT 422
 Db 414 HS 415

RESULT 9
 US-09-538-092-1090
 ; Sequence 1080, Application US/09538092
 ; Patent No. 6753314
 ; GENERAL INFORMATION:
 ; APPLICANT: Giot, Loic

BEST AVAILABLE COPY

APPLICANT: Mansfield, Traci A.
TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
FILE REFERENCE: 15966-542
CURRENT APPLICATION NUMBER: US/09/538,092
CURRENT FILING DATE: 2000-03-29
PRIOR FILING DATE: 2000-03-29
PRIOR FILING DATE: 1999-04-01
PRIOR FILING DATE: 1999-04-01
PRIOR FILING DATE: 2000-02-01
NUMBER OF SEQ ID NOS: 1387
SOFTWARE: CuraPatSeqFormatter Version 0.9
SEQ ID NO 1080
LENGTH: 526
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (0)...(0)
OTHER INFORMATION: Polypeptide Accession Number P35637
US-09-538-092-1080

Query Match 8.7%; Score 191.5; DB 4; Length 526;
Best Local Similarity 24.2%; Pred. No. 2.5e-07;
Matches 96; Conservative 41; Mismatches 148; Indels 111; Gaps 16;
QY 10 QQTTPDPSALSGKSPQNT-----PGEQNTQAIDPSALLFGSDT 51
DB 27 QSSSQPYGQSYSGYSGQSTDTSGYGSSSYGQSQNTGYGTSTPQYG-STGGYSSQ 85
QY 52 QKDVNFQTPDSTVQNPQDASKNDSDSNIKALISALIMSLQMLTNSNKKQDTPNROP-- 109
DB 86 SSQSSVG-----QSSYPGYGQOPAPSSTSYSGSSSSSYGQPSGYSQPSY 136
QY 110 -----DSQAPFNNGGLTPSADSGGGTTPDATGGGG-----DTPSATGGG 152
DB 137 GGGQSQSYGQSYGQSYGQSYGQSYGQSYGQSYGQSYGQSYGQSYGQSYGQSYGQSYG 191
QY 153 G--DTPATGGGGGGGGTATGGGGGGTATGGGGGGTATGGGGGGTATGGGGGGTATGG 210
DB 192 GGYGNQDQSGGGGGGGYGGQDGRGRGG-----SGGGGG-----GGGG 231
QY 211 VSDTAGTEQAGKINNVKDIKVGAGEVDFGHGATFTAD-----KSMGNGDQGENKPMF 265
DB 232 YNRSSGGEYPRGR-----GGGR--GGRGMGSGDRGGNKGPRDQGRHDSBQ 279
QY 266 ELAEGATLKNVNLGENEVDGIHVAKNAQEVTTIDNV--HAQNVGDELITVKEGGAATN 323
DB 280 DNSDNNITFVQGLGEN-----VTIESVADYFKQIG--IIKTKKTGQPMIN 323
QY 324 LNIKSSAGADKVVQNLNANTHLK--IDNFKADDF 357
DB 324 LYTDRETGLKGEATVDFDPPPSAKAIDWFDGKEF 359

RESULT 10
US-09-336-447A-9
Sequence 9, Application US/09336447A
Patent No. 6310190
GENERAL INFORMATION:
APPLICANT: HANSEN, ERIC J.
APPLICANT: ABEI, CHRISTOPH
APPLICANT: COPE, LESLIE D.
APPLICANT: MACIVER, ISOBEL
APPLICANT: FISKE, MICHAEL J.
APPLICANT: FREDENBURG, ROSS A.
TITLE OF INVENTION: USP1 AND USP2 ANTIGENS OF MORAXELLA CATARRHALIS
FILE REFERENCE: AMCY:024
CURRENT APPLICATION NUMBER: US/09/336,447A
CURRENT FILING DATE: 1999-06-21
NUMBER OF SEQ ID NOS: 98
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 9
LENGTH: 941

TYPE: PRT
ORGANISM: Moraxella catarrhalis
US-09-336-447A-9
Query Match 8.2%; Score 179.5; DB 3; Length 941;
Best Local Similarity 25.0%; Pred. No. 5.1e-06;
Matches 97; Conservative 39; Mismatches 139; Indels 113; Gaps 18;
QY 81 AKLISALIMSLQMLTNSNKKQDTPNQEOPDSQAPFNNGGLGTPSADSG-----GGTP 134
DB 29 AVLGSLLIVGILGMATTASQAQWATT---PSAQVVKTNKKNKNGTHPFIIGGDYNTTKGNYP 85
QY 135 DATGG-----GGGDTPSATG-----GG-----GDTPTATGGGGGGGGTPT 171
DB 86 TIGGGHFNFAEGNSTVGGGFTNEAIGKNSVTGGGFTNEAMGEYSTVAGGANNQAKGNYS 145
QY 172 ATGGGS-----GGTPTATGG-----GE-----GGVTPOITPQ----- 198
DB 146 TVGGGNGKKAIGNSTVGGSNNOAKGEHSTTAGKNNQATNGSPAGVENKADANNAV 205
QY 199 -LANPNRTSGTSVSDTAGSTEQAGKINNV-----KDTIKVAGEVDFGHGATFTAKSM 252
DB 206 ALCKNNTTIGTNSVAIGSNNTVTKGKNVFIILGNSNTNTENASQSGSVLLGNNTAGKAATTV 265
QY 253 GNGDQGENKPMFELAEAGATLKNVNLGENEVDGIHVAKNAQEVTTIDNVHAQNVGDELIT 312
DB 266 NNAE-----VNGLTLENF-AGASKA-----NANNIGTSVSGSENNERQIVN 305
QY 313 VKEGGAAVTNINIKNSAKGADKVVQNLNANTHLKIDNFKADDFGTVMRTNGGKQFDD- 371
DB 306 V-GAQISATSDAVNGSQLHALAKAVAKN-----KSDIKGL-----NKGVKELDK 351
QY 372 ---MSIELNG-----TEAHGKFPALVKSD 392
DB 352 VGVLSDINSLHDDVADNQDSIAKNKAD 379

RESULT 11
US-09-952-267B-9
Sequence 9, Application US/09952267B
Patent No. 6753417
GENERAL INFORMATION:
APPLICANT: HANSEN, ERIC J.
APPLICANT: ABEI, CHRISTOPH
APPLICANT: COPE, LESLIE D.
APPLICANT: MACIVER, ISOBEL
APPLICANT: FISKE, MICHAEL J.
APPLICANT: FREDENBURG, ROSS A.
TITLE OF INVENTION: USP1 AND USP2 ANTIGENS OF MORAXELLA CATARRHALIS
FILE REFERENCE: AMCY:024
CURRENT APPLICATION NUMBER: US/09/952,267B
CURRENT FILING DATE: 2001-09-12
PRIOR FILING DATE: 2001-09-12
PRIOR FILING DATE: 1999-06-21
NUMBER OF SEQ ID NOS: 98
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 9
LENGTH: 941
TYPE: PRT
ORGANISM: Moraxella catarrhalis
US-09-952-267B-9

Query Match 8.2%; Score 179.5; DB 4; Length 941;
Best Local Similarity 25.0%; Pred. No. 5.1e-06;
Matches 97; Conservative 39; Mismatches 139; Indels 113; Gaps 18;
QY 81 AKLISALIMSLQMLTNSNKKQDTPNQEOPDSQAPFNNGGLGTPSADSG-----GGTP 134
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QY 135 DATGG-----GGGDTPSATG-----GG-----GDTPTATGGGGGGGGTPT 171
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QY 172 ATGGG-----GGTPTATGG-----GE-----GGVTPQITPQ----- 198
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QY 199 -LANPNRTSGTSVSDTAGSTQAGKINVV-----KDTIKVAGVFDGHGATFTADKSM 252
Db 206 ALGNKNTTBTGTSVAIGSNNTVKTGKENVFILGNTNTENAGSGSVLLGNNTAGKAAATTV 265
QY 253 GNGDQGENQKPFELAEAGATLKNVNLGENEVDGIHVAKNAQAEVTDINVHAQVGEDLIT 312
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Db 306 V-GAGQISATSTDAVNGSQLHALAKAVAKN-----KSDIKGL---NKGVKELDK 351
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Db 352 VGVLSRDINSLHDDVADNQDSIAKNKAD 379

RESULT 12
US-09-902-540-12312
; Sequence 12312, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; PRIOR FILING DATE: 2001-07-10
; PRIOR FILING DATE: 2001-07-10
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 12312
; LENGTH: 857
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-12312

Query Match 8.1%; Score 178; DB 4; Length 857;
Best Local Similarity 28.2%; Pred. No. 6e-06;
Matches 70; Conservative 19; Mismatches 83; Indels 76; Gaps 10;
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Db 90 LLTAADTML-----AQVRAVEGKQPDSS-----AALLTQLSQRVTMT----- 128
QY 105 NQEQPDSQAP-----FQNNGLGTPPSADSGGGTTPDATGGGGDTTPSA 147
Db 129 -----GQAPATRAVKVATLKEGGSGDGTGGSDGSGTAGSGTAGSGTTGAGGSG 182
QY 148 TGGGGGDTPTATGG-----GSGGGTPTATGGSGGTTPTATGGGEGVTPQITPOLAN 201
Db 183 TTGGGSDGSGTTGGGPDGSGTAGGAGSGTTGGAGGSGTA--GGAGSGP--TGAGAS 238
QY 202 PNRTSGTGSV-----SDTAGSTEQAGKINNVKDTIKVAGVEFDHGATFTADK 250
Db 239 PASTHGGGAAGSGTRSCVDGGSGAAGGSASPG-----VASGTGVDGAGPG-PASP 287
QY 251 SMNGNDQ 258
Db 288 NLWNGGP 295

RESULT 13
US-09-540-236-2676
; Sequence 2676, Application US/09540236
; Patent No. 6673910

; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CAT
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2005-001
; CURRENT APPLICATION NUMBER: US/09/540,236
; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 2676
; LENGTH: 867
; TYPE: PRT
; ORGANISM: M. catarrhalis
US-09-540-236-2676

Query Match 8.1%; Score 178; DB 4; Length 867;
Best Local Similarity 24.9%; Pred. No. 6.1e-06;
Matches 105; Conservative 49; Mismatches 145; Indels 122; Gaps 24;
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QY 127 DSGGGGTPDATG-----GGGGDT-----PSATGGG-----GDTPTATGGGGGGGTPT 171
Db 79 -IGGFFNKAGSGESTIAGGRNQATKENSTVGGGKFNQAKGRNSTVAGGYNNEATGIDS 137
QY 172 ATGGGGGTTPTATGGGEGVTPQITPOLANPNRTSGTSVSDTAGSTEQAGKINVV----- 227
Db 138 TIAGGRNQATGAGSFAAGV-----GNQATGAGSFA--AGVGNQANADNAVAVGN 185
QY 228 -----KDTIKVAGE-VFDGHGATP-----TADKS-----MNGDQGENQKPFELAE 270
Db 186 KNSITGKDSVAIGSNNTVAQDH--TFILGNTQDVQSNVLLGNETAGK-----QA 234
QY 271 ATLKNVNLGENEVDGIHVK-----AKNAQEVTDINVHAQVGEDLITVKEGGAAVTNLNI 326
Db 235 TTVKNA-----EVDGLNLGTGAGVSNAGNTV-SVGSQGRERQIVHV-GAGEISATSDA 287
QY 327 KNSAKGADKRVOLNANTHLK--IDNFKADDFTGTVRTNGGKQFDD-----MSIELNGIE 380
Db 288 VNGSQLHALAKVADNYNDILNLLDDIYNLDD-----GIKOLDDEVGLLGBEINSLE 339
QY 381 AN--HGKFAVKSDSDLLKLATGNIAM-----TDVKHAYDKTQASTOH 421
Db 340 GEIPNNODATAKNOA-DIKTLESNVEGLDLSRLDLQKADIDNNINNIYELAQOQDOH 398
QY 422 T 422
Db 399 S 399

RESULT 14
US-09-479-467A-15
; Sequence 15, Application US/09479467A
; Patent No. 6723557
; GENERAL INFORMATION:
; APPLICANT: Sternberg, Paul W.
; APPLICANT: Bair, Maureen M.
; TITLE OF INVENTION: POLYCYSTIC KIDNEY DISEASE GENE HOMOLOGS REQUIRED FOR MALE M
; TITLE OF INVENTION: BEHAVIOR IN NEMATODES AND ASSAYS BASED THEREON
; FILE REFERENCE: 18021-2901B
; CURRENT APPLICATION NUMBER: US/09/479,467A
; CURRENT FILING DATE: 2000-01-06
; PRIOR FILING DATE: 60/115,127
; PRIOR FILING DATE: 1999-01-06
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 15
; LENGTH: 2870
; TYPE: PRT
; ORGANISM: C. Elegans Lov-1 sy582 deletion protein
US-09-479-467A-15

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 - 11: /cgn2_6/prodata/1/pubpna/US09C_PUBCOMB.seq*
 - 12: /cgn2_6/prodata/1/pubpna/US09_NEW_PUB.seq*
 - 13: /cgn2_6/prodata/1/pubpna/US10A_PUBCOMB.seq*
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 - 21: /cgn2_6/prodata/1/pubpna/US10I_PUBCOMB.seq*
 - 22: /cgn2_6/prodata/1/pubpna/US10J_NEW_PUB.seq*
 - 23: /cgn2_6/prodata/1/pubpna/US11A_PUBCOMB.seq*
 - 24: /cgn2_6/prodata/1/pubpna/US11_NEW_PUB.seq*
 - 25: /cgn2_6/prodata/1/pubpna/US60_NEW_PUB.seq*
 - 26: /cgn2_6/prodata/1/pubpna/US60_PUBCOMB.seq*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	1729	100.0	1729	9	US-09-835-684-10
2	1729	100.0	1729	9	US-09-880-371-10
3	1729	100.0	1729	9	US-09-879-248-13
4	1729	100.0	1729	15	US-10-010-390-10
5	1729	100.0	1729	17	US-10-441-736-13
6	1729	100.0	1729	20	US-10-847-142-10
7	1725.8	99.8	30365	9	US-09-825-414-1

Sequence 10, Appl

Sequence 10, Appl

Sequence 13, Appl

Sequence 10, Appl

Sequence 13, Appl

Sequence 10, Appl

Sequence 10, Appl

Sequence 1, Appl

8	1725.8	99.8	30365	21	US-10-893-776A-1	Sequence 1, Appl
9	155.2	9.0	1344	9	US-09-835-684-6	Sequence 6, Appl
10	155.2	9.0	1344	9	US-09-880-371-6	Sequence 6, Appl
11	155.2	9.0	1344	9	US-09-879-248-5	Sequence 5, Appl
12	155.2	9.0	1344	15	US-10-010-390-6	Sequence 6, Appl
13	155.2	9.0	1344	17	US-10-441-736-5	Sequence 5, Appl
14	155.2	9.0	1344	20	US-10-847-142-6	Sequence 6, Appl
15	113	6.5	495	9	US-09-825-414-4	Sequence 4, Appl
16	113	6.5	495	21	US-10-893-776A-4	Sequence 4, Appl
17	70.8	4.1	77294	21	US-10-729-802-1	Sequence 1, Appl
18	59.8	3.5	7593	20	US-10-363-345A-4841	Sequence 4841, Ap
19	59.8	3.5	7593	20	US-10-363-345A-4842	Sequence 4842, Ap
20	59.8	3.5	7593	21	US-10-363-483A-4841	Sequence 4841, Ap
21	59.8	3.5	7593	21	US-10-363-483A-4842	Sequence 4842, Ap
22	59.2	3.4	828	15	US-10-156-761-6360	Sequence 6360, Ap
23	59.2	3.4	975	17	US-10-355-956-1	Sequence 1, Appl
24	59.2	3.4	975	21	US-10-504-048-1	Sequence 1, Appl
25	59.2	3.4	9025608	15	US-10-156-761-1	Sequence 1, Appl
26	56.6	3.3	390	9	US-09-790-399-7	Sequence 7, Appl
27	55.2	3.2	4440	19	US-10-437-963-77734	Sequence 77734, A
28	54.8	3.2	392	19	US-10-437-963-94282	Sequence 94282, A
29	54.4	3.1	1667	19	US-10-437-963-35435	Sequence 35435, A
30	54.2	3.1	538	15	US-10-193-002-175	Sequence 175, App
31	54.2	3.1	538	15	US-10-084-843-180	Sequence 180, App
32	54.2	3.1	538	24	US-11-028-898-180	Sequence 180, App
33	54	3.1	861	16	US-10-001-245-77	Sequence 77, Appl
34	54	3.1	1946	19	US-10-437-963-38270	Sequence 38270, A
35	53.6	3.1	1304	19	US-10-437-963-19773	Sequence 19773, A
36	53.4	3.1	458	19	US-10-437-963-3998	Sequence 3998, Ap
37	53.2	3.1	2772	17	US-10-282-122A-28290	Sequence 28290, A
38	52.8	3.1	70383	15	US-10-283-247-3	Sequence 3, Appl
39	52.6	3.0	970	20	US-10-425-115-183587	Sequence 183587, A
40	52.6	3.0	4875	16	US-10-437-963-77742	Sequence 77742, A
41	52.4	3.0	861	16	US-10-001-245-61	Sequence 61, Appl
42	52.4	3.0	861	16	US-10-001-245-65	Sequence 65, Appl
43	52.4	3.0	861	16	US-10-001-245-75	Sequence 75, Appl
44	52.4	3.0	1455	17	US-10-282-122A-28683	Sequence 28683, A
45	52	3.0	1457	9	US-09-954-531-982	Sequence 982, App

ALIGNMENTS

RESULT 1

US-09-835-684-10
; Sequence 10, Application US/09835684
; Patent No. US20020019337A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 1729
; TYPE: DNA
; ORGANISM: Pseudomonas syringae
US-09-835-684-10

ABU

Query Match 100.0%; Score 1729; DB 9; Length 1729;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 361 TCTGGTAAACCTGGAGCTGGGTCCGATCCCAATTCGCCACTTTAGCGAGTAAACGAGCAT 420
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QY 1621 CAAATCGCCATGACCGGCTCAACACGCTTACGATTAACCCAGGCGATCGACCCAAAC 1680
Db 1621 CAAATCGCCATGACCGGCTCAACACGCTTACGATTAACCCAGGCGATCGACCCAAAC 1680
QY 1681 CACCGAGCTTTGAATTCAGCAAGTAGCTTCAAAAAAGGGGTGGACTC 1729
Db 1681 CACCGAGCTTTGAATTCAGCAAGTAGCTTCAAAAAAGGGGTGGACTC 1729

RESULT 3

US-09-879-248-13
; Sequence 13, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879, 248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 1729
; TYPE: DNA
; ORGANISM: Pseudomonas syringae
US-09-879-248-13

Query Match 100.0%; Score 1729; DB 9; Length 1729;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCACTTCGCTGATTTTGAATTTGGCAGATTCATAGAAACGTTTCAGGTGTGGAATCAGG 60
Db 1 TCCACTTCGCTGATTTTGAATTTGGCAGATTCATAGAAACGTTTCAGGTGTGGAATCAGG 60
QY 61 CTGAGTGGCAGATTTTCGTTGATAAGGCTGTGGTACTGTTGTTGTTGTTGTTTCAAGG 120
Db 61 CTGAGTGGCAGATTTTCGTTGATAAGGCTGTGGTACTGTTGTTGTTGTTGTTTCAAGG 120

61 plus to protein

121 CCTCTGAGTGGCGGCGGAGCAATACCAAGTCTTCTGCTGCGGTGTGCACACTGAGTGC 180
121 CCTCTGAGTGGCGGAGCAATACCAAGTCTTCTGCTGCGGTGTGCACACTGAGTGC 180
181 AGGCATAGGCAATTTCACTTCTGCTGCGGTGTGCACATATAAAGAACTTTTAA 240
181 AGGCATAGGCAATTTCACTTCTGCTGCGGTGTGCACATATAAAGAACTTTTAA 240
241 ACAGTGCAATGAGATGCGGCAAAACGGGAACCGGTCTGCTGCGGTGTGCACACTTGC 300
241 ACAGTGCAATGAGATGCGGCAAAACGGGAACCGGTCTGCTGCGGTGTGCACACTTGC 300
301 AGCAAGCTCAACCCCAATCCATCCATCCATCCATCCATCCATCCATCCATCCATCC 360
301 AGCAAGCTCAACCCCAATCCATCCATCCATCCATCCATCCATCCATCCATCCATCC 360
361 TCTGTTAAACCTGAGTGGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
361 TCTGTTAAACCTGAGTGGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
421 GAGCATGGCATCACACCCCGCGCAACAGACACACACACACACACACACACACACAC 480
421 GAGCATGGCATCACACCCCGCGCAACAGACACACACACACACACACACACACACAC 480
481 AAGCGGCAAGAGTCTCAACCAAAACAGTTCGCGGAGCAGAACTCAGCAAGCATCGA 540
481 AAGCGGCAAGAGTCTCAACCAAAACAGTTCGCGGAGCAGAACTCAGCAAGCATCGA 540
541 CCGAGTGCATGTTTTCGCGAGGACACACAGAAAGACGTCACACTTCGCGACGCCGA 600
541 CCGAGTGCATGTTTTCGCGAGGACACACAGAAAGACGTCACACTTCGCGACGCCGA 600
601 CAGCACCTGCAGAAATCCGAGGACGCGCAAGCCCAACAGCAGCAGTCCCAACATCGC 660
601 CAGCACCTGCAGAAATCCGAGGACGCGCAAGCCCAACAGCAGCAGTCCCAACATCGC 660
661 TAAATGTAGTGCATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
661 TAAATGTAGTGCATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
721 GCAGGACCAATCAGGAACAGCTGATGAGCAGGCTCTTTCAGAACACAGCGGCGGT 780
721 GCAGGACCAATCAGGAACAGCTGATGAGCAGGCTCTTTCAGAACACAGCGGCGGT 780
781 CGGTACACCTGCGCGGATAGCGGCGGCGGTACACCGGATGACAGTGGCGGCGG 840
781 CGGTACACCTGCGCGGATAGCGGCGGCGGTACACCGGATGACAGTGGCGGCGG 840
841 CGGTGATACGCAAGCGCAACAGCGGTGGCGGCGGTGATACCTCGACCCGCAACAGCGG 900
841 CGGTGATACGCAAGCGCAACAGCGGTGGCGGCGGTGATACCTCGACCCGCAACAGCGG 900
901 TGGCGGACGCGGTGGCGGCGGACACACCTGCTGCAACAGTGGCGGCGGCGGCGACACC 960
901 TGGCGGACGCGGTGGCGGCGGACACACCTGCTGCAACAGTGGCGGCGGCGGCGACACC 960
961 CACTGCAACAGCGGTGGCGGCGGAGTGGGTAAACCGCAAAATCACTCGCGAGTTGGCCAA 1020
961 CACTGCAACAGCGGTGGCGGCGGAGTGGGTAAACCGCAAAATCACTCGCGAGTTGGCCAA 1020
1021 CCCTAACCGTACTCAGTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1080
1021 CCCTAACCGTACTCAGTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1080
1081 CGGCAAGATCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
1081 CGGCAAGATCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
1141 CCAGCGCAACCTTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1200
1141 CCAGCGCAACCTTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1200
1201 GAAGCCCATGTTGAGCTGGCTGAAGGCGCTACGTTGAAGAAATGTGAACCTGGGTGAGAA 1260

1201 GAAGCCCATGTTGAGCTGGCTGAAGGCGCTACGTTGAAGAAATGTGAACCTGGGTGAGAA 1260
1261 CGAGGTGATGAGTCCAGCTGAAAGCCAAAGAGCTCAGAAAGTACCACTTGAACAAGT 1320
1261 CGAGGTGATGAGTCCAGCTGAAAGCCAAAGAGCTCAGAAAGTACCACTTGAACAAGT 1320
1321 GCATGCCCAAGAGCTGCGGTGAAGACCTGATTAACGCTCAAAAGGCGAGGCGGCGAGT 1380
1321 GCATGCCCAAGAGCTGCGGTGAAGACCTGATTAACGCTCAAAAGGCGAGGCGGCGAGT 1380
1381 CACTAATCTGAACATCAAGAACAGCAGTGCCTCAAGAGTGCAGACAGAGTGTGTCAGCT 1440
1381 CACTAATCTGAACATCAAGAACAGCAGTGCCTCAAGAGTGCAGACAGAGTGTGTCAGCT 1440
1441 CAAGCCCAACACTCACTTGAAGAAATCGAACACTTCAAGCCGACGATTTTCGCGACGATG 1500
1441 CAAGCCCAACACTCACTTGAAGAAATCGAACACTTCAAGCCGACGATTTTCGCGACGATG 1500
1501 TCGCACCAACCGTGGCAAGCAGTTCGATGATGATGATGATGATGATGATGATGATGATG 1560
1501 TCGCACCAACCGTGGCAAGCAGTTCGATGATGATGATGATGATGATGATGATGATGATG 1560
1561 TAACACCGCAAGTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620
1561 TAACACCGCAAGTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620
1621 CAACATCGCATGACGAGCTCAAAACAGCTTACGATAAAACCCAGGCGATCGACCCAA 1680
1621 CAACATCGCATGACGAGCTCAAAACAGCTTACGATAAAACCCAGGCGATCGACCCAA 1680
1681 CACCGAGCTTGAATCCAGAACAGTACGTTGAAAAAGGGGTGGAGTCT 1729
1681 CACCGAGCTTGAATCCAGAACAGTACGTTGAAAAAGGGGTGGAGTCT 1729

RESULT 4
US-10-010-390-10
; Sequence 10, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 1729
; TYPE: DNA
; ORGANISM: Pseudomonas syringae
US-10-010-390-10

Query Match 100.0%; Score 1729; DB 15; Length 1729;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 TCCACTTCGCTGATTTTGAATTTGGCAGATTTCATAGAACGTTTCAGGTGTGGAATCAGG 60
1 TCCACTTCGCTGATTTTGAATTTGGCAGATTTCATAGAACGTTTCAGGTGTGGAATCAGG 60
61 CTGAGTCCGAGATTTGCTTTGATAAGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
61 CTGAGTCCGAGATTTGCTTTGATAAGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
121 CCTCTGAGTGGGTGGGAGCAATACCAAGTCTTCTGCTGCGGTGTGCACACTGAGTGC 180

Db 121 CCTCTGAGTGGGTGGGAGCAATACCAAGTCTTCTGCTGGCGTGTGCACACTGAGTCGC 180
Qy 181 AGGCATAGCATTTTCAGTTCTTGGTGGGATATAAAAAAGGAACCTTTTAAAA 240
Db 181 AGGCATAGCATTTTCAGTTCTTGGTGGGATATAAAAAAGGAACCTTTTAAAA 240
Qy 241 ACAGTGCATAGATGCGGCAAAAACGGGAACCGGTGCGTGGCTTTGCCACTCACTTCG 300
Db 241 ACAGTGCATAGATGCGGCAAAAACGGGAACCGGTGCGTGGCTTTGCCACTCACTTCG 300
Qy 301 AGCAAGCTCAACCCCAACATCCATCCCTATCGAAACGACAGCATAGCGGCACTTGC 360
Db 301 AGCAAGCTCAACCCCAACATCCATCCCTATCGAAACGACAGCATAGCGGCACTTGC 360
Qy 361 TCTGGTAAACCTGGAGCTGGCGTGGTCCAAATGGCCACTTAGCAGGTAAAGCAT 420
Db 361 TCTGGTAAACCTGGAGCTGGCGTGGTCCAAATGGCCACTTAGCAGGTAAAGCAT 420
Qy 421 GAGCATCGGCATCACACCCCGCGGCAACAGACACACAGCCACTCGATTTTTCGGCGCT 480
Db 421 GAGCATCGGCATCACACCCCGCGGCAACAGACACACAGCCACTCGATTTTTCGGCGCT 480
Qy 481 AAGCGCAAGAGTCTCAACCAAAACAGTTTGGCGAGCAGAACTCAGCAAGCGATCGA 540
Db 481 AAGCGCAAGAGTCTCAACCAAAACAGTTTGGCGAGCAGAACTCAGCAAGCGATCGA 540
Qy 541 CCGGAGTCACTGTTGTTGGCGAGCAGCACACAGAAAGAGCTCAACTTGGCGACGCCGA 600
Db 541 CCGGAGTCACTGTTGTTGGCGAGCAGCACACAGAAAGAGCTCAACTTGGCGACGCCGA 600
Qy 601 CAGCACCGTCCAGAAATCCGAGGAGCCAGCAAGCCCAACAGCAGCAGCTCAACATCGC 660
Db 601 CAGCACCGTCCAGAAATCCGAGGAGCCAGCAAGCCCAACAGCAGCAGCTCAACATCGC 660
Qy 661 TAAATTGATCAGTGCAATGATCATGCTGCTGTCAGATGCTCACCACCTCCAATAAAA 720
Db 661 TAAATTGATCAGTGCAATGATCATGCTGCTGTCAGATGCTCACCACCTCCAATAAAA 720
Qy 721 GCAGGACCAATCAGGAACAGCTGATAGCCAGGCTCTTTCCAGAACAAACGGGGGT 780
Db 721 GCAGGACCAATCAGGAACAGCTGATAGCCAGGCTCTTTCCAGAACAAACGGGGGT 780
Qy 781 CCGTACACCGTCCGCGGATAGCGGGGCGCGGTACACCGGATGCGACAGTGGCGGG 840
Db 781 CCGTACACCGTCCGCGGATAGCGGGGCGCGGTACACCGGATGCGACAGTGGCGGG 840
Qy 841 CCGTGATACCGCAAGCGCAACAGCGGTGGCGGCTGATCTCCGACCGCAACAGCGG 900
Db 841 CCGTGATACCGCAAGCGCAACAGCGGTGGCGGCTGATCTCCGACCGCAACAGCGG 900
Qy 901 TGGCGGACGCTGGCGGCGGACACACCTGCAACAGGTGGCGGCGGAGCGGTGGCACCC 960
Db 901 TGGCGGACGCTGGCGGCGGACACACCTGCAACAGGTGGCGGCGGAGCGGTGGCACCC 960
Qy 961 CACTGCAACAGCGGTGGCGGCTGAGTGGGTGAGTACACCGCAAACTCTCCGAGTGGCCAA 1020
Db 961 CACTGCAACAGCGGTGGCGGCTGAGTGGGTGAGTACACCGCAAACTCTCCGAGTGGCCAA 1020
Qy 1021 CCTTAACCGTACCTCAGGTACTGGGTGCGGTGCGGACACCGCAGGTCTTACCGAGCAAGC 1080
Db 1021 CCTTAACCGTACCTCAGGTACTGGGTGCGGTGCGGACACCGCAGGTCTTACCGAGCAAGC 1080
Qy 1081 CGGCAAGATCAATGTGGTGAAGACACCATCAAGGTGGCGGTGGCGAAGTCTTTGACGG 1140
Db 1081 CGGCAAGATCAATGTGGTGAAGACACCATCAAGGTGGCGGTGGCGAAGTCTTTGACGG 1140
Qy 1141 CCACGGCGCAACTTCACTGCGGCAAAATCTATGGTAAACGAGACCGAGCGGCAAAATCA 1200
Db 1141 CCACGGCGCAACTTCACTGCGGCAAAATCTATGGTAAACGAGACCGAGCGGCAAAATCA 1200
Qy 1201 GAAGCCCATGTTGAGCTGGCTGAAGGGCGCTACGTTGAGAAATGTGAACCTGGGTGAGAA 1260
Db 1201 GAAGCCCATGTTGAGCTGGCTGAAGGGCGCTACGTTGAGAAATGTGAACCTGGGTGAGAA 1260

Qy 1261 CGAGGTGATGCGATCCAGTGAAGCCAAAAACGCTCAGGAAGTCAACCATTTGACACGCT 1320
Db 1261 CGAGGTGATGCGATCCAGTGAAGCCAAAAACGCTCAGGAAGTCAACCATTTGACACGCT 1320
Qy 1321 GCATGCCCAAGACGCTCGGTGGAAGACTGATTAACGGTCAAGAGCGAGGAGGCGCAGCGGT 1380
Db 1321 GCATGCCCAAGACGCTCGGTGGAAGACTGATTAACGGTCAAGAGCGAGGAGGCGCAGCGGT 1380
Qy 1381 CACTAATCTGAACATCAAGAACAGCAGTGCCTCAAGAGTGCAGACGACAAAGGTTGTCCAGCT 1440
Db 1381 CACTAATCTGAACATCAAGAACAGCAGTGCCTCAAGAGTGCAGACGACAAAGGTTGTCCAGCT 1440
Qy 1441 CAAAGCCCAACACTCTCACTTTGAAAATCGCACTTCAAGGCCGACGATTTTCGGCAGTGGT 1500
Db 1441 CAAAGCCCAACACTCTCACTTTGAAAATCGCACTTCAAGGCCGACGATTTTCGGCAGTGGT 1500
Qy 1501 TCGCACCAACGCTGGCAAGCAGTGTGATGACATGAGCATCGAGCTGAAACGGGATCGAAGC 1560
Db 1501 TCGCACCAACGCTGGCAAGCAGTGTGATGACATGAGCATCGAGCTGAAACGGGATCGAAGC 1560
Qy 1561 TAAACCAACGCTGGTGGTGAAGAGCGACAGTGCAGATCTGAAAGCTGGCAACGGG 1620
Db 1561 TAAACCAACGCTGGTGGTGAAGAGCGACAGTGCAGATCTGAAAGCTGGCAACGGG 1620
Qy 1621 CAAATCGCCATGACGCGAGCTCAAAACAGCGCTTACGATTAACCCAGGCAATCGACCAACA 1680
Db 1621 CAAATCGCCATGACGCGAGCTCAAAACAGCGCTTACGATTAACCCAGGCAATCGACCAACA 1680
Qy 1681 CACCGAGCTTTGAAATCCAGACAAAGTAGCTTGAAGAAAGGGGGTGGACTC 1729
Db 1681 CACCGAGCTTTGAAATCCAGACAAAGTAGCTTGAAGAAAGGGGGTGGACTC 1729

RESULT 5

US-10-441-736-13
; Sequence 13, Application US/10441736
; Publication No. US20040016029A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Schading, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; FILE REFERENCE: 21829/203 (EBC-003)
; CURRENT APPLICATION NUMBER: US/10/441,736
; CURRENT FILING DATE: 2003-05-20
; PRIOR APPLICATION NUMBER: 60/107,243
; PRIOR FILING DATE: 1998-11-05
; PRIOR APPLICATION NUMBER: 09/431,614
; PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 1729
; TYPE: DNA
; ORGANISM: Pseudomonas syringae
US-10-441-736-13

we had of ~~some~~
then not directed
to specific n.2.

Query Match 100.0%; Score 1729; DB 17; Length 1729;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCACTTCGCTGATTTTGAATTCGCAGATTCATAGAACGTTTCAGGTGTGGAATCAGG 60
Db 1 TCCACTTCGCTGATTTTGAATTCGCAGATTCATAGAACGTTTCAGGTGTGGAATCAGG 60
Qy 61 CTGAGTGGCGAGATTTGTTGATTAAGGTTGGTACTGCTCATTTGTTGGTCAATTCAGG 120
Db 61 CTGAGTGGCGAGATTTGTTGATTAAGGTTGGTACTGCTCATTTGTTGGTCAATTCAGG 120
Qy 121 CCTCTGAGTGGCGTGGGAGCAATACCAAGTCTTCTGCTGGCGTGTGCACACTGAGTCGC 180
Db 121 CCTCTGAGTGGCGTGGGAGCAATACCAAGTCTTCTGCTGGCGTGTGCACACTGAGTCGC 180

181 AGGATAGGCAATTCAGTTCTTGGTTGGTGGGATATATAAAGGAACATTTTAAAA 240
181 AGGATAGGCAATTCAGTTCTTGGTTGGTGGGATATATAAAGGAACATTTTAAAA 240
241 ACAGTGCAATGAGATGCGGCAAAACGGGAAACCGGTGCGCTTTGGCCACTCACTTCG 300
241 ACAGTGCAATGAGATGCGGCAAAACGGGAAACCGGTGCGCTTTGGCCACTCACTTCG 300
301 AGCAAGCTCAACCCCAACATCCATCCCTATCGAAGGACGAGATACGGCCACTTCG 360
301 AGCAAGCTCAACCCCAACATCCATCCCTATCGAAGGACGAGATACGGCCACTTCG 360
361 TCTGTTAAACCTTGAGCTGCGGTGCGTCCATTTGCGGCTTTGGCCACTCACTTCG 420
421 GAGCATCGGCAATCAACCCCGCGCAACAGACGAGATACGGCCACTCACTTCG 480
421 GAGCATCGGCAATCAACCCCGCGCAACAGACGAGATACGGCCACTCACTTCG 480
481 AAGCGGCAAGAGTCTCAACCAACAGTTCGGGAGGAGACACTCAGCAAGGATCGA 540
481 AAGCGGCAAGAGTCTCAACCAACAGTTCGGGAGGAGACACTCAGCAAGGATCGA 540
541 CCCGAGTGCACTGTTGTTGGGAGGAGACACAGAGAGAGTCACTTGGGACGCGCG 600
541 CCCGAGTGCACTGTTGTTGGGAGGAGACACAGAGAGAGTCACTTGGGACGCGCG 600
601 CAGCAGCTCAGAAATCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 660
601 CAGCAGCTCAGAAATCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 660
661 TAAATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
661 TAAATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
721 GCAGGACACCAATCAGGAAACAGCTGATGATGATGATGATGATGATGATGATGAT 780
721 GCAGGACACCAATCAGGAAACAGCTGATGATGATGATGATGATGATGATGATGAT 780
781 CGGTACACCGTGGGCGGATAGCGGGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 840
781 CGGTACACCGTGGGCGGATAGCGGGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 840
841 CGGTGATACGCGCAACAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 900
841 CGGTGATACGCGCAACAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 900
901 TGGCGGCGAGCGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 960
901 TGGCGGCGAGCGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 960
961 CACTGCAACAGCGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1020
961 CACTGCAACAGCGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1020
1021 CCCTAACCGTACCTCAGGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
1021 CCCTAACCGTACCTCAGGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
1081 CGGCAAGATCAATGTGGTGAAGACACCAATCAAGGTGCGGCGGCGGCGGCGGCGGCGG 1140
1081 CGGCAAGATCAATGTGGTGAAGACACCAATCAAGGTGCGGCGGCGGCGGCGGCGGCGG 1140
1141 CCAGGCGCAACCTTCACTGCGGCAAAATCTATGGTAAACGAGGAGGAGGAGGAGGAGG 1200
1141 CCAGGCGCAACCTTCACTGCGGCAAAATCTATGGTAAACGAGGAGGAGGAGGAGGAGG 1200
1201 GAAGCCCAATGTTGAGCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1260
1201 GAAGCCCAATGTTGAGCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1260

1261 CGAGGTGATGCGATCCAGTGAAGACCAAAACCGTTCAGGAAGTCCACATTGACAAAGT 1320
1261 CGAGGTGATGCGATCCAGTGAAGACCAAAACCGTTCAGGAAGTCCACATTGACAAAGT 1320
1321 GCATGCCAGAACGTCGCTGAGACCTGATTACGTTCAAGGCGGAGGAGGCGGCGGCGT 1380
1321 GCATGCCAGAACGTCGCTGAGACCTGATTACGTTCAAGGCGGAGGAGGCGGCGGCGT 1380
1381 CACTAATCTGAACATCAAGAACAGCAGTGCCTAAGGAGTGCAGACGCAAGGTTGTCCAGCT 1440
1381 CACTAATCTGAACATCAAGAACAGCAGTGCCTAAGGAGTGCAGACGCAAGGTTGTCCAGCT 1440
1441 CAACGCCAACATCTCACTTTGAAATTCGAACTTCAAGGCGGAGGATTTCCGCGACGATG 1500
1441 CAACGCCAACATCTCACTTTGAAATTCGAACTTCAAGGCGGAGGATTTCCGCGACGATG 1500
1501 TCGCACCAAGGTCGCGGAGGAGTTCGATGACATGAGCATCGAGCTGAACGCGCATCGAAGC 1560
1501 TCGCACCAAGGTCGCGGAGGAGTTCGATGACATGAGCATCGAGCTGAACGCGCATCGAAGC 1560
1561 TAAACCAAGGTCGCGGAGGAGTTCGATGACATGAGCATCGAGCTGAACGCGCATCGAAGC 1620
1561 TAAACCAAGGTCGCGGAGGAGTTCGATGACATGAGCATCGAGCTGAACGCGCATCGAAGC 1620
1621 CAACATCGCATGACGAGCGTCAAAACGCGCTACGATACGATACGATACGATACGATAC 1680
1621 CAACATCGCATGACGAGCGTCAAAACGCGCTACGATACGATACGATACGATACGATAC 1680
1681 CACGAGCTTTGAATCCAGCAAGTAGTCTTGAAGGAGGAGGAGGAGGAGGAGGAGGAG 1720
1681 CACGAGCTTTGAATCCAGCAAGTAGTCTTGAAGGAGGAGGAGGAGGAGGAGGAGGAG 1720

RESULT 6

US-10-847-142-10
; Sequence 10, Application US/10847142
; Publication No. US20040265442A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; FILE REFERENCE: 21829/197
; CURRENT APPLICATION NUMBER: US/10/847,142
; CURRENT FILING DATE: 2004-05-17
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: 09/835,684
; PRIOR FILING DATE: 2001-04-16
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 1729
; TYPE: DNA
; ORGANISM: Pseudomonas syringae
US-10-847-142-10

we did a patent

Query Match 100.0%; Score 1729; DB 20; Length 1729;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 TCCACTTCGCTGATTTTGAATTTGGCAGATTTCAAGAAAGTTCAGGTTGGAATCAGG 60
1 TCCACTTCGCTGATTTTGAATTTGGCAGATTTCAAGAAAGTTCAGGTTGGAATCAGG 60
61 CTGAGTGGCAGATTTCTGTTGATGAGGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 120
61 CTGAGTGGCAGATTTCTGTTGATGAGGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 120
121 CCTCTGAGTGGGCGGAGCAATACAGTCTTCTGCTGCGGTGTCACACTGAGTGGC 180

Db 121 CCTCTGAGTGGGTGGGAGCAATACCACTCTTCTCTGCTGGGTGTGCACACTGAGTGGC 180
Qy 181 AGGCATAGGCATTTTCAGTCTCTTGGTGTGGGCATATATAAAAGGAATTTTAAAA 240
Db 181 AGGCATAGGCATTTTCAGTCTCTTGGTGTGGGCATATATAAAAGGAATTTTAAAA 240
Qy 241 ACAGTGAATGAGATCGCGCAAAACCGGTGCGTCTGGCTTTTGGCACTCACTTCG 300
Db 241 ACAGTGAATGAGATCGCGCAAAACCGGTGCGTCTGGCTTTTGGCACTCACTTCG 300
Qy 301 AGCAAGCTCAACCCCAACATCCCATCTTATCGAACGAGCAGCATACCGCCACTTGC 360
Db 301 AGCAAGCTCAACCCCAACATCCCATCTTATCGAACGAGCAGCATACCGCCACTTGC 360
Qy 361 TCTGGTAAACCTGGAGTGGGTGCGTCTGGTCTGGTCTGGTCTGGTCTGGTCTGG 420
Db 361 TCTGGTAAACCTGGAGTGGGTGCGTCTGGTCTGGTCTGGTCTGGTCTGGTCTGG 420
Qy 421 GAGCATCGGCATCACACCCGCGCGCAACAGCAGCAGCAGCAGCAGCAGCAGCAGC 480
Db 421 GAGCATCGGCATCACACCCGCGCGCAACAGCAGCAGCAGCAGCAGCAGCAGCAGC 480
Qy 481 AAGCGGCAAGAGTCTTCAACCAAAACAGTTCGGCGAGCAGAACTCAGCAAGCATCGA 540
Db 481 AAGCGGCAAGAGTCTTCAACCAAAACAGTTCGGCGAGCAGAACTCAGCAAGCATCGA 540
Qy 541 CCGAGTGCACTGTGTGGTGGCAGCGACACAGAAAGAGTCTTTCAGAAACAGCGCGG 600
Db 541 CCGAGTGCACTGTGTGGTGGCAGCGACACAGAAAGAGTCTTTCAGAAACAGCGCGG 600
Qy 601 CAGCAGCGTCAGAAATCGCAGGAGCGCGAGCAGCAGCAGCAGCAGCAGCAGCAGC 660
Db 601 CAGCAGCGTCAGAAATCGCAGGAGCGCGAGCAGCAGCAGCAGCAGCAGCAGCAGC 660
Qy 661 TAAATTGATCAGTGCATTTGATCATGTGTGCTGCTGAGATGCTCAACCACTCCAATAAAA 720
Db 661 TAAATTGATCAGTGCATTTGATCATGTGTGCTGCTGAGATGCTCAACCACTCCAATAAAA 720
Qy 721 GCAGGACACCAATCAGAAACAGCTGTAGTGGTGGTGGTGGTGGTGGTGGTGGTGG 780
Db 721 GCAGGACACCAATCAGAAACAGCTGTAGTGGTGGTGGTGGTGGTGGTGGTGGTGG 780
Qy 781 CGGTACACCGTGGCGGATAGCGGGGCGCGGTACACCGGATGCGAGTGGTGGTGGTGG 840
Db 781 CGGTACACCGTGGCGGATAGCGGGGCGCGGTACACCGGATGCGAGTGGTGGTGGTGG 840
Qy 841 CGGTGATACGCAAGCGCAACAGCGCGTGGCGGCGGTGATCTCCGACCGCAACAGCGG 900
Db 841 CGGTGATACGCAAGCGCAACAGCGCGTGGCGGCGGTGATCTCCGACCGCAACAGCGG 900
Qy 901 TGGCGGAGCGGTGGCGGCGGACACCCACTGCAAGTGGTGGTGGTGGTGGTGGTGGTGG 960
Db 901 TGGCGGAGCGGTGGCGGCGGACACCCACTGCAAGTGGTGGTGGTGGTGGTGGTGGTGG 960
Qy 961 CACTGCAACAGGCGGTGGCGGAGGTGGGTAAACCGCAATCACTCCGAGTGGGCA 1020
Db 961 CACTGCAACAGGCGGTGGCGGAGGTGGGTAAACCGCAATCACTCCGAGTGGGCA 1020
Qy 1021 CCCTAACCGTACCTCAGGTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
Db 1021 CCCTAACCGTACCTCAGGTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
Qy 1081 CGGCAAGATCAATGTGTGTAAGACACCATCAAGTGGTGGTGGTGGTGGTGGTGGTGG 1140
Db 1081 CGGCAAGATCAATGTGTGTAAGACACCATCAAGTGGTGGTGGTGGTGGTGGTGGTGG 1140
Qy 1141 CCAGCGGCACTTCACTCCGCAAAATCTATGGGTAAACCGGAGACCGAGGCGGAAATCA 1200
Db 1141 CCAGCGGCACTTCACTCCGCAAAATCTATGGGTAAACCGGAGACCGAGGCGGAAATCA 1200
Qy 1201 GAAGCCCATGTTGAGTGGTGAAGCGCGTACGTTGAAGAAATGTGAACCTGGGTGAGAA 1260
Db 1201 GAAGCCCATGTTGAGTGGTGAAGCGCGTACGTTGAAGAAATGTGAACCTGGGTGAGAA 1260

RESULT 7

US-09-825-414-1

; Sequence 1, Application US/09825414

; Patent No. US20020083489A1

; GENERAL INFORMATION:

; APPLICANT: Collmer, Alan

; APPLICANT: Alfano, James R.

; APPLICANT: Charkowski, Amy O.

; TITLE OF INVENTION: DNA MOLECULES AND POLYPEPTIDES OF PSEUDOMONAS SYRINGAE

; FILE REFERENCE: 19603/3243

; CURRENT APPLICATION NUMBER: US/09/825,414

; PRIOR FILING DATE: 2001-04-03

; PRIOR FILING DATE: 2000-04-03

; PRIOR FILING DATE: 2000-04-03

; PRIOR FILING DATE: 2000-08-11

; PRIOR FILING DATE: 2000-11-17

; NUMBER OF SEQ ID NOS: 91

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 1

; LENGTH: 30365

; TYPE: DNA

; ORGANISM: Pseudomonas syringae

; FEATURE:

; NAME/KEY: unsure

; LOCATION: (29734)

; OTHER INFORMATION: n at any position is undefined

US-09-825-414-1

Query Match

Best Local Similarity 99.8%; Score 1725.8; DB 9; Length 30365;

Matches 1727; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCCACTTCGCTGATTTTGAATTTGGCAGATTTCATAGAAACGTTTCAGGTGTGGAATTCAGG 60
Db 20748 TCCACTTCGCTGATTTTGAATTTGGCAGATTTCATAGAAACGTTTCAGGTGTGGAATTCAGG 20807

; LOCATION: (30237)
; OTHER INFORMATION: n at position 30237 is undefined
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (30317)
; OTHER INFORMATION: n at position 30317 is undefined
US-10-893-776A-1

Query Match 99.8%; Score 1725.8; DB 21; Length 30365;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1727; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1. TCCACTTCGCTGATTTTGAATTTGGCAGATTCTATAGAAAGCTTCAGGTGGGAAATCAGG 60
DB 20748 TCACACTTCGCTGATTTTGAATTTGGCAGATTCTATAGAAAGCTTCAGGTGGGAAATCAGG 20807
QY 61 CTGAGTCGCGAGATTTCTGTGATTAAGGGTGTGTACTGTGTCATTTGTTGTCATTTCAAGG 120
DB 20808 CTGAGTCGCGAGATTTCTGTGATTAAGGGTGTGTACTGTGTCATTTGTTGTCATTTCAAGG 20867
QY 121 CCTCTGAGTCGCGTGGGAGCAATACAGTCTTCTGCTGGCTGTGCACTAGTTCGC 180
DB 20868 CCTCTGAGTCGCGTGGGAGCAATACAGTCTTCTGCTGGCTGTGCACTAGTTCGC 20927
QY 181 AGGCATAGGCAATTTCACTTCCTTTCGCTTGTGTCGATATAAAGGAACTTTTAAAA 240
DB 20928 AGGCATAGGCAATTTCACTTCCTTTCGCTTGTGTCGATATAAAGGAACTTTTAAAA 20987
QY 241 ACAGTCGAATAGATGCGGCAAAACGGGAACCGTCTGCTGCTTTGCCACTCACTTCG 300
DB 20988 ACAGTCGAATAGATGCGGCAAAACGGGAACCGTCTGCTGCTTTGCCACTCACTTCG 21047
QY 301 AGCAAGCTCAACCCCAAAATCCATCCATCCATTCGAAACGGAAGCATAGGCACTTTCG 360
DB 21048 AGCAAGCTCAACCCCAAAATCCATCCATCCATTCGAAACGGAAGCATAGGCACTTTCG 21107
QY 361 TCTGTGTAACCTTGGAGTGGCGTCTGCTTCAATTTGCCATTTAGCGAGGTAAACGAGCAT 420
DB 21108 TCTGTGTAACCTTGGAGTGGCGTCTGCTTCAATTTGCCATTTAGCGAGGTAAACGAGCAT 21167
QY 421 GAGCATCGGCATCACACCCCGCGGCAACAGACACACGACGACGCTCGATTTTTCGGCGCT 480
DB 21168 GAGCATCGGCATCACACCCCGCGGCAACAGACACACGACGACGCTCGATTTTTCGGCGCT 21227
QY 481 AAGCGCAAGATCTCTCAACCAAAACAGTTTCGGGAGGAGCACTCTCAGCAAGCGATCGA 540
DB 21228 AAGCGCAAGATCTCTCAACCAAAACAGTTTCGGGAGGAGCACTCTCAGCAAGCGATCGA 21287
QY 541 CCGAGTGCACCTGTTCTCGGAGCGACACACAGAAAGCGTCAACTTCGGCAACGCCGA 600
DB 21288 CCGAGTGCACCTGTTCTCGGAGCGACACACAGAAAGCGTCAACTTCGGCAACGCCGA 21347
QY 601 CAGCACCGTCCAGAAATCCGAGGACGCCAGCAAGCCCAACGACGACGCTCCAAATCGC 660
DB 21348 CAGCACCGTCCAGAAATCCGAGGACGCCAGCAAGCCCAACGACGACGCTCCAAATCGC 21407
QY 661 TAAATTGATCAGTGATGATGATGCTGTGTCAGATGCTCAACAACTCCAATAAAA 720
DB 21408 TAAATTGATCAGTGATGATGATGCTGTGTCAGATGCTCAACAACTCCAATAAAA 21467
QY 721 GCAGGACCAATCAGGACGCTGATAGCAGGCTCTTTCAGAAACAAACGGCGGCT 780
DB 21468 GCAGGACCAATCAGGACGCTGATAGCAGGCTCTTTCAGAAACAAACGGCGGCT 21527
QY 781 CGGTACACCGTCCGCGATAGCGGGGCGGCGGTACACCGGATGCGACAGGTGGCGGG 840
DB 21528 CGGTACACCGTCCGCGATAGCGGGGCGGCGGTACACCGGATGCGACAGGTGGCGGG 21587
QY 841 CGGTGATACCGCAACGCGAAGCGGTGGCGGTGATATCTCGCAACGCAACAGCGG 900
DB 21588 CGGTGATACCGCAACGCGAAGCGGTGGCGGTGATATCTCGCAACGCAACAGCGG 21647
QY 901 TGGCGGCGAGGTGGCGGGCGGACACCCACTGCAACAGGTGGCGGCGGTGGCACACC 960

DB 21648 TGGCGGCGAGCGGTGGCGGGCGGACACCCACTGCAACAGGTGGCGGCGAGCGGTGGCACACC 21707
QY 961 CACTGCAACAGCGCGGTGGCGAGGCGGTAAACACCGCAAAATCACTCCGAGTTGGCCAA 1020
DB 21708 CACTGCAACAGCGCGGTGGCGAGGCGGTAAACACCGCAAAATCACTCCGAGTTGGCCAA 21767
QY 1021 CCCTAACCGTACTCTAGAGTACTGGCTCGGTGCTGGACACCGCAAGTTTACCGAGCAAGC 1080
DB 21768 CCCTAACCGTACTCTAGAGTACTGGCTCGGTGCTGGACACCGCAAGTTTACCGAGCAAGC 21827
QY 1081 CGGCAAGATCAATGTTGTAAGAGACACCATCAAGGTTCGGCGCTGGGCAAGTCTTTGACCG 1140
DB 21828 CGGCAAGATCAATGTTGTAAGAGACACCATCAAGGTTCGGCGCTGGGCAAGTCTTTGACCG 21887
QY 1141 CCACGCGCAACCTTTCACTGCGGCAAAATCTATGGGTAAACGAGACCGGCGGAAATCA 1200
DB 21888 CCACGCGCAACCTTTCACTGCGGCAAAATCTATGGGTAAACGAGACCGGCGGAAATCA 21947
QY 1201 GAAGCCCATGTTGAGAGTGGCTGAAGGCGCTACGTTGAAAGATGTGAACCTTGGGTGAGAA 1260
DB 21948 GAAGCCCATGTTGAGAGTGGCTGAAGGCGCTACGTTGAAAGATGTGAACCTTGGGTGAGAA 22007
QY 1261 CGAGTTCGATGCGCATCCAGTGAAGCCAAACCGTCAAGGAGTCAAGGTTGACCAACGT 1320
DB 22008 CGAGTTCGATGCGCATCCAGTGAAGCCAAACCGTCAAGGAGTCAAGGTTGACCAACGT 22067
QY 1321 GCATGCCCAAGACGTCGCTGAAGACCTGATTAACGCTCAAAAGCGGAGGCGGCGACGGT 1380
DB 22068 GCATGCCCAAGACGTCGCTGAAGACCTGATTAACGCTCAAAAGCGGAGGCGGCGACGGT 22127
QY 1381 GACTAATCTGAATCAAGAACAGCAGTGCCTCAAGAGTGCAGACGACGAGTGTTCAGCT 1440
DB 22128 GACTAATCTGAATCAAGAACAGCAGTGCCTCAAGAGTGCAGACGACGAGTGTTCAGCT 22187
QY 1441 CAACGCCAACACTCTCTGAAATCGAAATCGAACTTCAAGGCCGACGATTTTCGGCACGATGT 1500
DB 22188 CAACGCCAACACTCTCTGAAATCGAAATCGAACTTCAAGGCCGACGATTTTCGGCACGATGT 22247
QY 1501 TCGCACCAACCGTGGTCAAGCAGTGTGATGACATGAGCATTCGAGCTGAAACGGCATCGAAGC 1560
DB 22248 TCGCACCAACCGTGGTCAAGCAGTGTGATGACATGAGCATTCGAGCTGAAACGGCATCGAAGC 22307
QY 1561 TAAACACGCGAAGTTTCGCCCTTGGTGAAGGCGACAGTGCAGTCTGAAAGTGGCAACCGG 1620
DB 22308 TAAACACGCGAAGTTTCGCCCTTGGTGAAGGCGACAGTGCAGTCTGAAAGTGGCAACCGG 22367
QY 1621 CAACATCCCATGACCGGACGTCAAACACGCTTACGATAAACCCAGGATCGACCCCAACA 1680
DB 22368 CAACATCCCATGACCGGACGTCAAACACGCTTACGATAAACCCAGGATCGACCCCAACA 22427
QY 1681 CACCGAGCTTTGAATCCAGACAAAGTAGCTTGAAGGAGGCGGTGGACTC 1729
DB 22428 CACCGAGCTTTGAATCCAGACAAAGTAGCTTGAAGGAGGCGGTGGACTC 22476

RESULT 9

US-09-835-684-6
; Sequence 6, Application US/09835684
; Patent No. US2002001937A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; FILE REFERENCE: 21829/71
; CURRENT APPLICATION NUMBER: US/09/835,684
; CURRENT FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1344
; TYPE: DNA
; ORGANISM: Erwinia amylovora
US-09-835-684-6

Query Match 9.0%; Score 155.2; DB 9; Length 1344;
Best Local Similarity 57.1%; Pred. No. 3e-36;
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;
Qy 1079 GCCGCAAGATCAATGTGGTGAAGACACCATCAAGTTCGGCGCTGGCGAAGTCTTTGAC 1138
Db 745 GCGCTAATCAGACGGTCTGTCATGACACCATACCGTGAAGCGGCTCAGGTGTTTGT 804
Qy 1139 GGCACGCGCAACCTTCACTGCCGCAAAATCTATGGTAAACGAGACACGAGGCGGCAAAAT 1198
Db 805 GGCAAGGACAAACCTTCAACCGCGGTTTCAAGATTAGGCGGTGGCGCAGTCTGAAGAC 864
Qy 1199 CAGAAGCCCATGTTGAGTGGTGAAGCGCTACGTTGAAGAAATGTGAACCTTGGGTGAG 1258
Db 865 CAGAAACCGCTGTTTATCTGGAAGACGGTGCAGCCTGAAAAAAGTCAACATGGCGGAC 924
Qy 1259 AACGAGTGCATGTCATCGGATCAGCTGAAGCCAAACGCTCAGGAGTCAACATTGACAAC 1318
Db 925 GACGGGCGGATGGTATTCATCTTTACG-----GTGATGCCAAAATAGACAAT 972
Qy 1319 GTGCATGCCAGACGTCGTTGAAGACCTGATTACCGTCAAGCGGAGGCGGCGACGC 1378
Db 865 CAGAAACCGCTGTTTATCTGGAAGACGGTGCAGCCTGAAAAAAGTCAACATGGCGGAC 924
Qy 1259 AACGAGTGCATGTCATCGGATCAGCTGAAGCCAAACGCTCAGGAGTCAACATTGACAAC 1318
Db 925 GACGGGCGGATGGTATTCATCTTTACG-----GTGATGCCAAAATAGACAAT 972
Qy 1319 GTGCATGCCAGACGTCGTTGAAGACCTGATTACCGTCAAGCGGAGGCGGCGACGC 1378
Db 973 CTGACGTCACCAACGTCGTTGAGGACGGGATTCGTTAAGCCAAACAGCGCGGCAAA 1032
Qy 1379 GTCACTAATCTGAACATCAAGAACAGCAGTGCCTCAAGGTCGAGACGCAAGGTTGTCAG 1438
Db 1033 AAATCCACGTTGAAATCACTAACAGTTCCTTCGAGCAGCCTCTGACAAGATCCTGCAG 1092
Qy 1439 CTCAGCGCAACACTCACTTGAATAATCGAACAATTCAGGCGGAGGATTCGGCAGCATG 1498
Db 1093 CTGAATGCCGATCTAACTGAGCGGTTGACAACTGAAAGCCAAAGACTTTGGTACTTTT 1152
Qy 1499 GTTCGACCAACGCGTGGCAAGCAGTTTGCATGATGATGATGATGATGATGATGATGATGAT 1558
Db 1153 GTACGCACTAACGCGGTCACAG---GGTAACTGGGATCTGAATCTGAGCCATATCAGC 1209
Qy 1559 GCTAACCGCAAGTTCGCTTGGTGAAGACGACGATGATGATGATGATGATGATGATGATGATGAT 1618
Db 1210 GCAGAAGACGGTAACTTCTCGTTTAAAGCGATAGCGAGGCGCTAAACGTCATATACC 1269
Qy 1619 GGCAACATCGCATGACCGACGTCACAAACGCGCTACGA 1656
Db 1270 AGTGATATCTCACTGGGTGATGTTGAAAACCACTACAA 1307

RESULT 10
US-09-880-371-6
; Sequence 6, Application US/09880371
; Patent No. US2002059658A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: DeRoche, Jay
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
; TITLE OF INVENTION: PLANTS
; FILE REFERENCE: 21829/91
; CURRENT APPLICATION NUMBER: US/09/880,371
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/211,585
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1344
; TYPE: DNA
; ORGANISM: Erwinia amylovora
US-09-880-371-6

Query Match 9.0%; Score 155.2; DB 9; Length 1344;
Best Local Similarity 57.1%; Pred. No. 3e-36;
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;
Qy 1079 GCCGCAAGATCAATGTGGTGAAGACACCATCAAGTTCGGCGCTGGCGAAGTCTTTGAC 1138
Db 745 GCGCTAATCAGACGGTCTGTCATGACACCATACCGTGAAGCGGCTCAGGTGTTTGT 804
Qy 1139 GGCACGCGCAACCTTCACTGCCGCAAAATCTATGGTAAACGAGACACGAGGCGGCAAAAT 1198
Db 805 GGCAAGGACAAACCTTCAACCGCGGTTTCAAGATTAGGCGGTGGCGCAGTCTGAAGAC 864
Qy 1199 CAGAAGCCCATGTTGAGTGGTGAAGCGCTACGTTGAAGAAATGTGAACCTTGGGTGAG 1258
Db 865 CAGAAACCGCTGTTTATCTGGAAGACGGTGCAGCCTGAAAAAAGTCAACATGGCGGAC 924
Qy 1259 AACGAGTGCATGTCATCGGATCAGCTGAAGCCAAACGCTCAGGAGTCAACATTGACAAC 1318
Db 925 GACGGGCGGATGGTATTCATCTTTACG-----GTGATGCCAAAATAGACAAT 972
Qy 1319 GTGCATGCCAGACGTCGTTGAAGACCTGATTACCGTCAAGCGGAGGCGGCGACGC 1378
Db 973 CTGACGTCACCAACGTCGTTGAGGACGGGATTCGTTAAGCCAAACAGCGCGGCAAA 1032
Qy 1379 GTCACTAATCTGAACATCAAGAACAGCAGTGCCTCAAGGTCGAGACGCAAGGTTGTCAG 1438
Db 1033 AAATCCACGTTGAAATCACTAACAGTTCCTTCGAGCAGCCTCTGACAAGATCCTGCAG 1092
Qy 1439 CTCAGCGCAACACTCACTTGAATAATCGAACAATTCAGGCGGAGGATTCGGCAGCATG 1498
Db 1093 CTGAATGCCGATCTAACTGAGCGGTTGACAACTGAAAGCCAAAGACTTTGGTACTTTT 1152
Qy 1499 GTTCGACCAACGCGTGGCAAGCAGTTTGCATGATGATGATGATGATGATGATGATGATGAT 1558
Db 1153 GTACGCACTAACGCGGTCACAG---GGTAACTGGGATCTGAATCTGAGCCATATCAGC 1209
Qy 1559 GCTAACCGCAAGTTCGCTTGGTGAAGACGACGATGATGATGATGATGATGATGATGATGATGAT 1618
Db 1210 GCAGAAGACGGTAACTTCTCGTTTAAAGCGATAGCGAGGCGCTAAACGTCATATACC 1269
Qy 1619 GGCAACATCGCATGACCGACGTCACAAACGCGCTACGA 1656
Db 1270 AGTGATATCTCACTGGGTGATGTTGAAAACCACTACAA 1307

RESULT 11
US-09-879-248-5
; Sequence 5, Application US/09879248
; Patent No. US20020062500A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Hao
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 21829/81
; CURRENT APPLICATION NUMBER: US/09/879,248
; CURRENT FILING DATE: 2001-06-12
; PRIOR APPLICATION NUMBER: 60/212,211
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1344
; TYPE: DNA
; ORGANISM: Erwinia amylovora
US-09-879-248-5
Query Match 9.0%; Score 155.2; DB 9; Length 1344;
Best Local Similarity 57.1%; Pred. No. 3e-36;
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;
Qy 1079 GCCGCAAGATCAATGTGGTGAAGACACCATCAAGTTCGGCGCTGGCGAAGTCTTTGAC 1138

Db	745	GGCGCTAATCAGACGGTGCTCGATGACACCAATTACCGTGAAGCGGGTCAGGTGTTTGAT	804
Qy	1139	GGCCACGGCGCAACCTTTCACCTGCCGACAAATCTATGGGTAAACGAGACACAGCGGCGAAAT	1198
Db	805	GGCAAGGACAAACCTTTCACCGCGTTTCAGANATTAGCGATGGCGCCAGCTCTGAANAC	864
Qy	1199	CAGAAGCCCATGTTTCGAGCTGGCTGAAGCGCCTAGTTGAAGANATGTGAACCTGGGTGAG	1258
Db	865	CAGAAACCGCTGTTTATCTCTGGAAGCGTGCCAGCCTGTGAAAAACGTCAACCATGGCGAC	924
Qy	1259	AACGAGTTCGATGGCATCCACGTGAAGCCAAAAACGCTCAGGAAGTCACCATTTGACAAC	1318
Db	925	GACGGGCGGATGGTATTCATCTTTACG-----GTGATGCCAAATAGACAT	972
Qy	1319	GTGCATGCCCAAGACGTGCGGTGAAGACCTGATTAACGFTCAAGCGGAGGAGCGCCACG	1378
Db	973	CTGCACGTCAACACGTGGGTGAGACGGCATTAACCGTTAAGCCAAACACAGCGCGGGCAAA	1032
Qy	1379	GTCACTAATCTGAACATCAAGAACAGCAGTGCCTCAAGAGTGCAGACGACAGGTGTCTCAG	1438
Db	1033	AAATCCACGTTTGAATACATAACAGTTCTCTTCAGACACGCGCTCTGAACAAGATCCTCGAG	1092
Qy	1439	CTCAACGCCAACACTCACTTGAAATCGAACACTTCAAGGCCGACGATTTCCGCAACGATG	1498
Db	1093	CTGAATGCCGATACTAACCTGAGCGTTGACAACTGAAGGCCAAGACTTTGGTACTTTT	1152
Qy	1499	GTTTCGACCAACCGTGGCAAGCAGTTTGAATGACATGACATCGAGCTGAACGGCATCGAA	1558
Db	1153	GTACGCACATAACCGCGCGTCAACAG--GGTAACTGGGATCTGAATCTGAGCCATATCAGC	1209
Qy	1559	GCTAAACACAGCAAGTTTCGCGCTTGTCGAAAGCGACATGACCATCTGAAGCTGGCAACG	1618
Db	1210	GCAGACAGCGTAAGTTCTCGTTCGTTAAAGCGATAGCAGGGGCTTAAACGTCATATACC	1269
Qy	1619	GGCAACATCGCCATGACCGCAGCTCAAAACACGCGCTACGA	1656
Db	1270	AGTGATATCTCACTGGGTGATGTTGAAAAACCACTACAA	1307

RESULT 12
 US-10-010-390-6
 ; Sequence 6, Application US/10010390
 ; Publication No. US20030104979A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wei, Zhong-Min
 ; APPLICANT: Leon, Ernesto
 ; APPLICANT: Oviedo, Agustin
 ; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
 ; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
 ; FILE REFERENCE: 21829/111
 ; CURRENT APPLICATION NUMBER: US/10/010,390
 ; CURRENT FILING DATE: 2001-11-05
 ; PRIOR APPLICATION NUMBER: 60/248,169
 ; PRIOR FILING DATE: 2000-11-13
 ; NUMBER OF SEQ ID NOS: 14
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 6
 ; LENGTH: 1344
 ; TYPE: DNA
 ; ORGANISM: Erwinia amylovora
 US-10-010-390-6

Db	805	GGCAAAAGGACAAACCTTTACCGCGGTT	CAGAAATTAGGCGGATGGCGCCAGTCTGAAAAC	864
Qy	1199	CAGAAGCCCATGTTCCAGCTGGCTGAAAGCGCTACGTTGAAGAATCTGAACTTGGGTGAG	1258	
Db	865	CAGAAACCGCTGTTTATCTGGAAGACGGTGCACGCTGAAAACGTCACCATGGCGGAC	924	
Qy	1259	AACGAGTGCATGGCATCCAGTGAAGCCAAAACGCTCAGGAAGTCCACCATTGAACAAC	1318	
Db	925	GACGGCGGATGGTATTTCATCTTTACG-----GTGATCCCAAAATAGACAAT	972	
Qy	1319	GTGCATGCCCAGAACGTCGGTGAAGACCTGATTACGGTCAAAAGGCGAGGCGCAGCG	1378	
Db	973	CTGCACGTACCAACCGTGGGTGAGGACGGGATTACCGTTAAGCCAAACAGCGCGGCGCAA	1032	
Qy	1379	GTCACTAATCTGAACATCAAGAAACAGACGATGCCAAAGGTGCAGACGCAAGGTTGTCAG	1438	
Db	1033	AAATCCACGTTGAAATTCATACAGTTCTCTTCGACACGCGCTCTGACAAGATCTCTGCAG	1092	
Qy	1439	CTCAAGCCCAACTCACTTTGAAAATTCGACAACTTCAAGGCCGACGATTTTCGCGACGATG	1498	
Db	1093	CTGATGCCGATACTAACTGAGCGTTGACACGTTGAGGCCAAGACCTTTGGTACTTTT	1152	
Qy	1499	GTTTCGCACCAACGGTGGCAAGCATGTTTGATGACATGAGCATCGAGCTGAACGGCATCGAA	1558	
Db	1153	GTACGCACTAACGGCGGTCAACAG---GGTAACTGGGATCTGAAATCTGAGCCATATCAGC	1209	
Qy	1559	GCTTAAACACGGCAAGTTCCGCTTGGTGAAGCGCAGTGACGATCTGAAAGCTGGCAACG	1618	
Db	1210	GCAGAAGACGGTAAGTTCTCGTTTAAACGATAGCGAGGGGTAAACGTCAATACC	1269	
Qy	1619	GGCAACATGCCCATGACCGACGTCAAAACACGCTTACGA	1656	
Db	1270	AGTGATATCTCACTGGGTGATGTTGAAAACCACTACAA	1307	

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RESULT 13
US-10-441-736-5
; Sequence 5, Application US/10441736
; Publication NO. US20040016029A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Zhang, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; TITLE OF INVENTION: RESISTANCE
; FILE REFERENCE: 21829/203 (EBC-003)
; CURRENT APPLICATION NUMBER: US/10/441,736
; CURRENT FILING DATE: 2003-05-20
; PRIOR APPLICATION NUMBER: 60/107,243
; PRIOR FILING DATE: 1998-11-05
; PRIOR APPLICATION NUMBER: 09/431,614
; PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1344
; TYPE: DNA
; ORGANISM: Erwinia amylovora
US-10-441-736-5

```

865	Db	CAGAAACCGCTGTTTATCTGGAAGACGGTGCAGCGCTGAAAAACGTCAACCTATGGGGAC	924
1259	Qy	AACGAGTCTGATGGCATCCACGTGAAGCCAAAAACGCTCAGGAAGTCAACCTATGACAAC	1318
925	Db	GACGGGCGGATGGTATTCTATTACG-----GTGATGCCAAATATAGACAAT	972
1319	Qy	GTGCATGCCCAGAAACGTCTGGTGAAGACCTGATTACGGTCAAAGCGGAGGAGCGGCAGCG	1378
973	Db	CTGCACGTCAACCAACGTGGGTGAGGACGCATTACCGTTAAGCCAAACACGCGGGGCCAAA	1032
1379	Qy	GTCACTAATCTGAACATCAAGAACAGCAGTGCCAAAGGTGCAGACGACAAGTTGTGCCAG	1438
1033	Db	AAATCCCAACGTTGAATACATAACAGTTCCTTCGAGCAGCGCTCTGACAAGATCCTGCCAG	1092
1439	Qy	CTCAAGCCCAACACTCACTTTGAAAATCGACAACCTTCAAGCCGACGAGTTTCGGCACGATG	1498
1093	Db	CTGAATGCCGATACTAACTCTGAGCGTTGTGACAAACGTGAAGGCCAAAGACTTTGGTACTTTT	1152
1499	Qy	GTTTCGACCAACCGGTGCGAAGCAGTTTGTATGACATGAGCATCGAGCTGTAACGGCATCGAA	1558
1153	Db	GTAACGCACTAACCGCGGTCAACAG--GGTAACTGGGATCTGAATCTCGAGCCATATACGC	1209
1559	Qy	GCTAAACCAACGGCAAGTTTCGCCCTGGTGAAAGCGACATGACGATCTGAAGCTGGCAACG	1618
1210	Db	GCAGAACGCGTAGTTCTCGTTCGTTAAAGCGATAGAGGGGCTTAACGTCATATACC	1269
1619	Qy	GGCAACATCGCCATGACCGCAGTCAAAACACGCTTACGA	1656
1270	Db	AGTGATATCTCACTGGGTGATGTTGAAAAACCACTACAA	1307

RESULT 14
US-10-847-142-6
; Sequence 6, Application US/10847142
; Publication No. US20040265442A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Renick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
; TITLE OF INVENTION: DESICCATION
; FILE REFERENCE: 21829/197
; CURRENT APPLICATION NUMBER: US/10/847,142
; CURRENT FILING DATE: 2004-05-17
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: 09/835,684
; PRIOR FILING DATE: 2001-04-16
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1344
; TYPE: DNA
; ORGANISM: Erwinia amylovora
US-10-847-142-6

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; Patent No. US20020083489A1
; GENERAL INFORMATION:
; APPLICANT: Collmer, Alan
; APPLICANT: Alfano, James R.
; APPLICANT: Charkowski, Amy O.
; TITLE OF INVENTION: HRP PATHOGENICITY ISLAND AND THEIR USES
; FILE REFERENCE: 19603/3243
; CURRENT APPLICATION NUMBER: US/09/825,414
; CURRENT FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/194,160
; PRIOR FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: 60/224,604
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: 60/249,548
; PRIOR FILING DATE: 2000-11-17
; NUMBER OF SEQ ID NOS: 91
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 495
; TYPE: DNA
; ORGANISM: Pseudomonas syringae
; US-09-825-414-4

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Search completed: July 29, 2005, 22:20:15
Job time : 1175 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 29, 2005, 19:22:19 ; Search time 311 Seconds
(without alignments)
9096.857 Million cell updates/sec

Title: US-09-597-513-1

Perfect score: 1729

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Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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7	56.6	3.3	390	3	US-09-197-649-7
8	56.6	3.3	591	3	US-09-402-668-1
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35 46.6 2.7 407 3 US-08-458-745-1 Sequence 1, Appli
36 46.6 2.7 407 3 US-09-056-556-173 Sequence 173, App
37 46.6 2.7 407 3 US-09-072-596-168 Sequence 168, App
38 46.6 2.7 407 4 US-09-072-967-173 Sequence 173, App
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40 45.8 2.6 888 3 US-08-765-907A-2 Sequence 2, Appli
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ALIGNMENTS

RESULT 1
US-09-120-817-1
; Sequence 1, Application US/09120817
; Patent No. 6172184
; GENERAL INFORMATION:
; APPLICANT: Collmer, Alan
; APPLICANT: Charkowski, Amy
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM
; TITLE OF INVENTION: PSEUDOMONAS SYRINGAE AND ITS USE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/120,817
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/055,107
; FILING DATE: 06-AUG-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1741
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1729 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-09-120-817-1

Query Match 100.0%; Score 1729; DB 3; Length 1729;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

aligns to
problem

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RESULT 2

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; Sequence 13, Application US/09431614
; Patent No. 6624139
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Schading, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; TITLE OF INVENTION: RESISTANCE
; FILE REFERENCE: 21829/41 (EBC-003)
; CURRENT APPLICATION NUMBER: US/09/431,614
; CURRENT FILING DATE: 1999-11-02
; EARLIER APPLICATION NUMBER: 60/107,243
; EARLIER FILING DATE: 1998-11-05
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 1729
; TYPE: DNA
; ORGANISM: Pseudomonas syringae
US-09-431-614-13
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 3
 US-09-120-927-1
 ; Sequence 1, Application US/09120927
 ; Patent No. 6262018
 ; GENERAL INFORMATION:
 ; APPLICANT: Kim, Jihyun Francis
 ; APPLICANT: Beer, Steven V.
 ; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM
 ; TITLE OF INVENTION: ERWINIA AMYLOVORA AND ITS USE
 ; NUMBER OF SEQUENCES: 3
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
 ; STREET: P.O. Box 1051, Clinton Square
 ; CITY: Rochester
 ; STATE: New York
 ; COUNTRY: U.S.A.
 ; ZIP: 14603
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/120,927
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 60/055,108
 ; FILING DATE: 06-AUG-1977
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Goldman, Michael L.
 ; REGISTRATION NUMBER: 30,727

claims to one
 of the proteins
 in general

REFERENCE/DOCKET NUMBER: 19603/1581
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1304
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1344 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-09-120-927-1

Query Match 9.0%; Score 155.2; DB 3; Length 1344;
Best Local Similarity 57.1%; Pred. No. 2.5e-30;
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;
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QY 1139 GCGCAGCGGCAACCTTCACTCCGCAAAATCTATGGGTAAACGAGACACAGGGCGAAAT 1198
DB 805 GCGAAGGACAACTTACCCCGGTTAGGATAGGCGGATGCGGCGAGTCTGAAAC 864
QY 1199 CAGAAAGCCCATGTCGAGTGGCTGAAGCGCTACGTTGAAGAAATGTGAACCTGGGTGAG 1258
DB 865 CAGAAACCGCTGTTATCTGGAAGACGGTCCAGCCTGAAACAGTCAACATGGCGAC 924
QY 1259 AACGAGGTGATGCGATCCACGTGAAGCCAAACCGTCAGGAAGTCAACATTGACAAAC 1318
DB 925 GACGGGCGGATGGTATTCTTTACG-----GTGATGCCAAATAGACAA 972
QY 1319 GTGCATGCCAGAACTCGGTGAAGACCTGATTACGGTCAAGGCGGAGCGCGACG 1378
DB 973 CTGACGTACCAAGTGGTGAAGACGGATTAACGTTAGCCAAACAGCGGGCAA 1032
QY 1379 GTCACTAATCTGAACATCAAGACAGAGTGCACAAAGTGCAGACAAAGTGTGTCAG 1438
DB 1033 AAATCCCGTGAATCACTAACAGTTCCTTCGAGCAGCGCTCTGACAAGATCCTGCAG 1092
QY 1439 CTCACGCCCACTCACTTGAATCGAACACTTCAAGGCGGAGGATTCGCGACGATG 1498
DB 1093 CTGAATGCCGATTAACCTGAGCGTTGACAACTGAAAGGCGCAAGACTTTGGTACTTT 1152
QY 1499 GTTCGACCAACGCGTGAAGCAGTTCGATGATGATGATGATGATGATGATGATGATGATG 1558
DB 1153 GTACGCACTAACGCGGTCAACAG---GGTAACTGGGATCTGAATCTGAGCATATCAGC 1209
QY 1559 GCTAACCGCAAGTTCGCTGTTGAAGAAAGCAGACGATGACGATCTGAAGCTGGCAACG 1618
DB 1210 GCAGAAGCGGTAAAGTTCGTTCTGTTTAAAGCGATAGCGAGGGCTAAACGTCATACC 1269
QY 1619 GGCACATCGCATGACCGGCTCAAAACAGCGCTACGA 1656
DB 1270 AGTGATATCTCACTGGGTGATGTTGAAACCACTACAA 1307

RESULT 4
US-09-431-614-5
Sequence 5, Application US/09431614
Patent No. 6624139
GENERAL INFORMATION:
APPLICANT: Wei, Zhong-Min
APPLICANT: Schading, Richard L.
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
TITLE OF INVENTION: RESISTANCE
FILE REFERENCE: 21829/41 (EBC-003)
CURRENT APPLICATION NUMBER: US/09/431,614
CURRENT FILING DATE: 1999-11-02
EARLIER APPLICATION NUMBER: 60/107,243
EARLIER FILING DATE: 1998-11-05
NUMBER OF SEQ ID NOS: 18

SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
LENGTH: 1344
TYPE: DNA
ORGANISM: Erwinia amylovora
US-09-431-614-5

Query Match 9.0%; Score 155.2; DB 4; Length 1344;
Best Local Similarity 57.1%; Pred. No. 2.5e-30;
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;
QY 1079 GCCGCAAGATCAATGTGGTGAAGACACCATCAAGTCCGGCTGGCGGAAGTCTTTGAC 1138
DB 745 GCGCTAATCAGACGGTGTGTCATGACACCATATTACCGTGAAGCGGGTCAGGTGTTGAT 804
QY 1139 GCGCAGCGGCAACCTTCACTCCGCAAAATCTATGGGTAAACGAGACACAGGGCGAAAT 1198
DB 805 GCGAAGGACAACTTCAACCGGTTAGGATAGGCGGATGCGGCGAGTCTGAAAC 864
QY 1199 CAGAAAGCCCATGTCGAGTGGCTGAAGCGCTACGTTGAAGAAATGTGAACCTGGGTGAG 1258
DB 865 CAGAAACCGCTGTTATCTGGAAGACGGTCCAGCCTGAAACAGTCAACATGGCGAC 924
QY 1259 AACGAGGTGATGCGATCCACGTGAAGCCAAACCGTCAGGAAGTCAACATTGACAAAC 1318
DB 925 GACGGGCGGATGGTATTCTTTACG-----GTGATGCCAAATAGACAA 972
QY 1319 GTGCATGCCAGAACTCGGTGAAGACCTGATTACGGTCAAGGCGGAGGCGCGACG 1378
DB 973 CTGACGTACCAAGTGGTGAAGACGGATTAACGTTAGCCAAACAGCGGGCAA 1032
QY 1379 GTCACTAATCTGAACATCAAGACAGAGTGCACAAAGTGCAGACAAAGTGTGTCAG 1438
DB 1033 AAATCCCGTGAATCACTAACAGTTCCTTCGAGCAGCGCTCTGACAAGATCCTGCAG 1092
QY 1439 CTCACGCCCACTCACTTGAATCGAACACTTCAAGGCGGAGGATTCGCGACGATG 1498
DB 1093 CTGAATGCCGATTAACCTGAGCGTTGACAACTGAAAGGCGCAAGACTTTGGTACTTT 1152
QY 1499 GTTCGACCAACGCGTGAAGCAGTTCGATGATGATGATGATGATGATGATGATGATGATG 1558
DB 1153 GTACGCACTAACGCGGTCAACAG---GGTAACTGGGATCTGAATCTGAGCATATCAGC 1209
QY 1559 GCTAACCGCAAGTTCGCTGTTGAAGAAAGCAGACGATGACGATCTGAAGCTGGCAACG 1618
DB 1210 GCAGAAGCGGTAAAGTTCGTTCTGTTTAAAGCGATAGCGAGGGCTAAACGTCATACC 1269
QY 1619 GGCACATCGCATGACCGGCTCAAAACAGCGCTACGA 1656
DB 1270 AGTGATATCTCACTGGGTGATGTTGAAACCACTACAA 1307

RESULT 5
US-09-103-840A-2
Sequence 2, Application US/09103840A
Patent No. 6294328
GENERAL INFORMATION:
APPLICANT: FLEISCHMAN, Robert D.
APPLICANT: WHITE, Owen R.
APPLICANT: FRASER, Claire M.
APPLICANT: VENTER, John C.
TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
TITLE OF INVENTION: TUBERCULOSIS
FILE REFERENCE: 24366-20007.00
CURRENT APPLICATION NUMBER: US/09/103,840A
CURRENT FILING DATE: 1998-06-24
NUMBER OF SEQ ID NOS: 2
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 4403765
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
FEATURE:

```
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match      3.7%; Score 64.4; DB 3; Length 4411529;
Best Local Similarity 47.5%; Pred. No. 3.4e-05;
Matches 191; Conservative 0; Mismatches 211; Indels 0; Gaps 0;

QY 792 CGGCCGATAGCGGGCGCGGTACACCGATGCGAGTGGCGGCGGTGATACGC 851
Db 3926107 CCGCGCGCACCGCGCGCAAGCGCGCGCGCGCGGTGCTCGGTGCTGATAATG 3926166

QY 852 CAGCGCAACAGCGGTGGCGGGGTGATCTACTCGACCGCAACAGCGGTGGCGGACGC 911
Db 3926167 CCAGCGGGATTGGCGCGCGACCGCGCGCGCGGTGCGGACTGCGGTAAACCGCGCGCGCGCG 3926226

QY 912 GTGCGCGCGGCACACCCACTGCAACAGTGGCGGCGCGGTGGCGACACCCACTGCAACAG 971
Db 3926227 GGCGCGCGGGCGCGCGCGCACCGGAGGAACCGCGCGGGGTGTGCGCGCGCGCGCGGACGG 3926286

QY 972 GCGGTGGCGAGGTGGCGGTAAACCGCAATCACTCCGCAAGTTGGCCAACTTAACCGTA 1031
Db 3926287 CCGGTATCGCGCGCACCGCGCGCGCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3926346

QY 1032 CTTGAGTACTGCTGGTGGACACCGCGAGTTCTACCGAGCAAGCGCGCAAGATCA 1091
Db 3926347 ATCGGACCGCTTACCGGTGGCCACCGCGCGCGCGCGGTTCCTCGGTGAGCGCGCGCGCGCG 3926406

QY 1092 ATGTGGTGAAGACACCATCAAGTGGCGGCTGGCGAGTCTTGGCGCCACCGCGCA 1151
Db 3926407 GCGGGCGCGCGCAACCGCGGTGGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3926466

QY 1152 CTTTCACTGCGCAAAATCTATGGGTAAACGAGACCGAGCGCG 1193
Db 3926467 CCGCGCGCGCGCGCGCGCGCGGTGGTGTGCTGGCGGTGTCGCGCG 3926508

RESULT 6
US-09-103-840A-1
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE OF INVENTION: TUBERCULOSIS
; TITLE OF INVENTION: TUBERCULOSIS
; CURRENT APPLICATION NUMBER: US/09/103,840A
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match      3.7%; Score 64.4; DB 3; Length 4411529;
Best Local Similarity 47.5%; Pred. No. 3.4e-05;
Matches 191; Conservative 0; Mismatches 211; Indels 0; Gaps 0;

QY 792 CGGCCGATAGCGGGCGCGGTACACCGATGCGAGTGGCGGCGGTGATACGC 851
Db 3926107 CCGCGCGCACCGCGCGCAAGCGCGCGCGCGGTGCTCGGTGCTGATAATG 3926166

QY 852 CAGCGCAACAGCGGTGGCGGGGTGATCTACTCGACCGCAACAGCGGTGGCGGACGC 911
Db 3926167 CCAGCGGGATTGGCGCGCGACCGCGCGCGCGGTGCGGACTGCGGTAAACCGCGCGCGCGCG 3926226

QY 912 GTGCGCGCGGCACACCCACTGCAACAGTGGCGGCGCGGTGGCGACACCCACTGCAACAG 971
Db 3926227 GGCGCGCGGGCGCGCGCGCACCGGAGGAACCGCGCGGGGTGTGCGCGCGCGCGCGGACGG 3926286

QY 972 GCGGTGGCGAGGTGGCGGTAAACCGCAATCACTCCGCAAGTTGGCCAACTTAACCGTA 1031
Db 3926287 CCGGTATCGCGCGCACCGCGCGCGCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3926346

QY 1032 CTTGAGTACTGCTGGTGGACACCGCGAGTTCTACCGAGCAAGCGCGCAAGATCA 1091
Db 3926347 ATCGGACCGCTTACCGGTGGCCACCGCGCGCGCGCGGTTCCTCGGTGAGCGCGCGCGCGCG 3926406

QY 1092 ATGTGGTGAAGACACCATCAAGTGGCGGCTGGCGAGTCTTGGCGCCACCGCGCA 1151
Db 3926407 GCGGGCGCGCGCAACCGCGGTGGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3926466

QY 1152 CTTTCACTGCGCAAAATCTATGGGTAAACGAGACCGAGCGCG 1193
Db 3926467 CCGCGCGCGCGCGCGCGCGCGGTGGTGTGCTGGCGGTGTCGCGCG 3926508
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QY 912 GTGCGCGCGGCACACCCACTGCAACAGTGGCGGCGAGCGGTGGCGACACCCACTGCAACAG 971
Db 3932439 GGCGCGCGGGCGCGCGCGCACCGGAGGAACCGCGCGGGTTGTGCGCGCGCGCGCAAGG 3932498

QY 972 GCGGTGGCGAGGTGGCGGTAAACCCAAATCACTCGGAGTTGGCCAACTTAACCGTA 1031
Db 3932499 CCGGTATCGCGCGCACCGCGCGCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3932558

QY 1032 CTTGAGTACTGCTGGTGGACACCGCGAGTTCTACCGAGCAAGCGCGCGCGCGCGCGCG 1091
Db 3932559 ATCGGACCGCTTACCGGTGGCCACCGCGGCGCACCGGGTTTCCTCGGTGAGCGCGCGCG 3932618

QY 1092 ATGTGGTGAAGACACCATCAAGTGGCGGCTGGCGAGTCTTGGTGAACCGCGCGCGCA 1151
Db 3932619 GCGGGCGCGCGCGCGCAACCGCGGTGGCGGCGCACCAACCGCTCCGCGCGCGCAAGCGGCA 3932678

QY 1152 CTTTCACTGCGCAAAATCTATGGGTAAACGAGACCGAGCGCG 1193
Db 3932679 CCGCGCGCGCGCGCGCGCGGTGGTGTGCGCGGTGTCGCGCG 3932720

RESULT 7
US-09-197-649-7
; Sequence 7, Application US/09197649
; Patent No. 6194550
; GENERAL INFORMATION:
; APPLICANT: Gold, Larry
; APPLICANT: Tuerk, Craig
; APPLICANT: Pribnow, David
; APPLICANT: Smith, Jonathan D.
; TITLE OF INVENTION: Systematic Polypeptide Evolution by Reverse Translation
; FILE OF INVENTION: NEX02/C1-CON
; CURRENT APPLICATION NUMBER: US/09/197,649
; EARLIER FILING DATE: 1998-11-23
; EARLIER FILING DATE: 1992-01-31
; EARLIER FILING DATE: 1991-08-01
; EARLIER FILING DATE: 1991-08-01
; EARLIER FILING DATE: 1990-08-02
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 390
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sequence
; OTHER INFORMATION: having a 120 repeat of ACG flanked by fixed
; OTHER INFORMATION: fragments having NcoI restriction sites.
US-09-197-649-7

Query Match      3.3%; Score 56.6; DB 3; Length 390;
Best Local Similarity 47.1%; Pred. No. 6.7e-05;
Matches 173; Conservative 0; Mismatches 194; Indels 0; Gaps 0;

QY 1256 GAGAACGAGGTGCGTGGCATCCCGTGAAGCCAAAGCCAGGAGTCCACCATTTGAC 1315
Db 21 GACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 80

QY 1316 AACGTGATGCCCCAGAACGTCGTTGAAGACCTTGATTAACGTTCAAGGGGAGGAGCGCA 1375
Db 81 GACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 140

QY 1376 GCGGTCACTATCTGAACATCAAGACAGTGGCCAAAGTGGACGACGACGACGACGACGAC 1435
Db 141 GACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 200

QY 1436 CAGTCTCAACCGCAACACTCTTGAATAATCGACAACTTCAAGGCCGCGAGTTTCGGCAG 1495
Db 201 GACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 260

QY 1496 ATGTTTGGCAACACCGGTGGCAAGCAGTTTGTATGATGATGATGATGATGATGATGATGAT 1555
```


APPLICANT: Schnorr, Kirk
TITLE OF INVENTION: Protein Degrading Enzymes From Bacillus
TITLE OF INVENTION: Licheniformis
FILE REFERENCE: 5377,200-US
CURRENT APPLICATION NUMBER: US/09/670,141
PRIOR FILING DATE: 2000-09-26
PRIOR APPLICATION NUMBER: 09/198,956
PRIOR FILING DATE: 1998-11-24
PRIOR APPLICATION NUMBER: 1344/97
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/067,240
PRIOR FILING DATE: 1997-12-02
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 3
LENGTH: 666
TYPE: DNA
ORGANISM: Bacillus licheniformis
US-09-670-141-3

Query Match 3.2%; Score 55.8; DB 3; Length 666;
Best Local Similarity 52.6%; Pred. No. 0.00014;
Matches 154; Conservative 0; Mismatches 127; Indels 12; Gaps 1;
QY 1090 CAATGTGTGAAGACACACCATCAAGTCCGGCTGGCGAAGTCTTTGACGGCCACGGCG 1149
DB 87 CGAGTGCTTCAAAAACGATCGTAGTCGAAAGGCCAAACGATGACGGAAGGCAA 146
QY 1150 AACCTTCACCTGCCGACAAATCATGGGTAAACGAGACGAGGGCGGAAATCAGAAAGCCAT 1209
DB 147 GCGGCTATTGACGTCGGAGCTCGGGAGCGGAGCAACGCGAGGATCAAAACCGAT 206
QY 1210 GTTCGACTGTGAAGCGCTAGCTTGAAGATGTGAACCTGGGTGAGAACGAGGTGGA 1269
DB 207 TTTCAAAGTGAGGATGTGCAACGCTCAAAATGTCTGTTGGCGCTCTCTGTGCTGA 266
QY 1270 TGGCATCCAGTGAAGCCAAACGCTCAGGAGTCAACCATTGACAAACGTGATGCCA 1329
DB 267 TGGTGTTCACATATGGAAC-----GCTTCAATAAACGTTGTTGGGA 314
QY 1330 GAACGTGGTGAAGACCTGATTACGGTCAAGGCGAGGGAGGGCGAGCGGTCA 1382
DB 315 AGATGTCGGGAGATGCTTGAATGTCGTAAGGAGGAGGAGTGTACAGTAA 367

RESULT 11
US-09-103-840A-1/c
Sequence 1, Application US/09103840A
Patent No. 6294328
GENERAL INFORMATION:
APPLICANT: FLEISCHMAN, Robert D.
APPLICANT: WHITE, Owen R.
APPLICANT: FRASER, Claire M.
APPLICANT: VENTER, John C.
TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
FILE REFERENCE: 24366-20007.00
CURRENT APPLICATION NUMBER: US/09/103,840A
CURRENT FILING DATE: 1998-06-24
NUMBER OF SEQ ID NOS: 2
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 4411529
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match 3.1%; Score 54.4; DB 3; Length 4411529;
Best Local Similarity 42.9%; Pred. No. 0.014;
Matches 396; Conservative 0; Mismatches 516; Indels 12; Gaps 2;
QY 772 CGCGGGCTCGGTACACCGTCCGCCGATAGCGGGGGCGGTACACCGGATCGACAGG 831

DB 1191640 CGCGGAGCGCGGCCAAACGCGCGCGCGCGCAACCGCGGCTCTCTACGCAACGG 1191581
QY 832 TGGCGCGCGCGGTGATACGCAAGCGCAACGAGCGGTGGCGCGGTGATATCTCCGACCGC 891
DB 1191580 CGGCAATGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1191521
QY 892 AACAGCGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 951
DB 1191520 GGGTGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1191461
QY 952 TGGCACACCCACTGCAACGAGCGGTGGCGCGGTGGCGCGGTGGCGCGGTGGCGCGGTGG 1011
DB 1191460 TGGCGGGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1191401
QY 1012 GTTGGCCAA-----CCCTAACCGTACTCTCAGGTACTTGGCTCGGTGTGCGACACCGCAGG 1065
DB 1191400 GTCCGCAACGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1191341
QY 1066 TTCTACGAGCAAGCGCGCAAGATCAATGTGTGAAAGACACCATCAAGTTCGCGGTGG 1125
DB 1191340 CAACGCGCGGTGACGCGGTGGGTGCGGCAACGCGCGCGCGCGCGCGCGCGCGCG 1191281
QY 1126 CGAAGTCTTTGACGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1185
DB 1191280 CGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1191221
QY 1186 CAAGGCGCAAAATCAGAACCCATGTTCCAGCTGGCTGAAAGCGCTACGTTGAAGATGT 1245
DB 1191220 CCAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1191161
QY 1246 G-----AACTGGGTGAGAAAGAGTGCATGCCATCCAGTGAAGCGCGCGCGCGCGCG 1299
DB 1191160 GTTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1191101
QY 1300 GBAAGTCAACATGACAAAGTGCATGCCAGACGCTCGGTGAGACCTGATTACGCTCA 1359
DB 1191100 TGGCGCGCGCTTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1191041
QY 1360 AGCGGAGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1419
DB 1191040 CGCGGCTAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1190981
QY 1420 AGACGACAAAGTTGTCAGCTCAACGCCAACTCACTTTGAAATCGAACAACTTCAAGC 1479
DB 1190980 CGACGCGCGCAACGCGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1190921
QY 1480 CGACGATTTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1539
DB 1190920 TGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1190861
QY 1540 CGAGCTGAACGCGCATCGAAGCTAAACCGCGCAAGTTTCGCGCTGTTGAAAGCGCACAGTGA 1599
DB 1190860 CGGTGCAAAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1190801
QY 1600 CGATCTGAAGTTGGCAACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1659
DB 1190800 TAGTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1190741
QY 1660 AACCCAGGCGATCGACCCCAACAC 1683
DB 1190740 ATCCGCTGTGACGACGATATCACAC 1190717

RESULT 12
US-09-056-556-180.
Sequence 180, Application US/09056556
Patent No. 6350456
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND

NUMBER OF SEQUENCES: 241
CORRESPONDENCE ADDRESS:
APPLICANT: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 180:
SEQUENCE CHARACTERISTICS:
LENGTH: 538 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-056-556-180

Query Match 3.1%; Score 54.2; DB 3; Length 538;
Best Local Similarity 48.8%; Pred. No. 0.00032;
Matches 177; Conservative 0; Mismatches 183; Indels 3; Gaps 1;
QY 794 GCCGATAGCGGGCGGGTACACCGGATGCGACAGGTGGCGGGCGGGTGTATACGCCA 853
DB 80 GCGCGCAGCGCGGCAACCGCGGCAACCGCGCATGGCGGCAACAGCGGCAACCGCGCAGC 139
QY 854 AGCGCAACAGCGGTGGCGGGTGTACTCCGACCGCAACAGCGGTGGCGGCGGCGGCGGT 913
DB 140 GCGCAGCGGGTGGCGGGGAAACCGCGCGGCAACCGCGGCGGCGGCGGCGGCGGCGAC 199
QY 914 GCGCGCGGCACACCCACTGCAACAGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 972
DB 200 GCGGCGCTCACCCTGCTACTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 259
QY 973 --CGGTGGCGGGTGGCGGTAACACCGCAATCTCTCCGAGTTGGCGCAACCTTAACCGT 1030
DB 260 AACCGCGGCAACCGGAGCAGATAACACCGCAACATGATCTGCGCAGCGGGCGGCGG 319
QY 1031 ACCTCAGGTACTGGCTCGGTGTCGGACACCGCAGGTTCTTACCGAGCAACCGCGCAAGATC 1090
DB 320 GCGCAACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 379
QY 1091 AATGTGGTGAAGACACCATCAAGTTCGGCGGTGGCGGAGTCTTTGACGGCGCACCGCGCA 1150
DB 380 GCTGGCGGCAACCGGCAACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 439
QY 1151 ACC 1153
DB 440 ATC 442

RESULT 13

US-09-072-596-175
Sequence 175, Application US/09072596
Patent No. 6458366
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.

APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 175:
SEQUENCE CHARACTERISTICS:
LENGTH: 538 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-596-175

Query Match 3.1%; Score 54.2; DB 3; Length 538;
Best Local Similarity 48.8%; Pred. No. 0.00032;
Matches 177; Conservative 0; Mismatches 183; Indels 3; Gaps 1;
QY 794 GCCGATAGCGGGCGGGTACACCGGATGCGACAGGTGGCGGGCGGGTGTATACGCCA 853
DB 80 GCGCGCAGCGCGGCAACCGCGGCAACCGCGCATGGCGGCAACAGCGGCAACCGCGCAGC 139
QY 854 AGCGCAACAGCGGTGGCGGGTGTACTCCGACCGCAACAGCGGTGGCGGCGGCGGCGGT 913
DB 140 GCGCAGCGGGTGGCGGGGAAACCGCGCGGCAACCGCGGCGGCGGCGGCGGCGGCGAC 199
QY 914 GCGCGCGGCACACCCACTGCAACAGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 972
DB 200 GCGGCGCTCACCCTGCTACTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 259
QY 973 --CGGTGGCGGGTGGCGGTAACACCGCAATCTCTCCGAGTTGGCGCAACCTTAACCGT 1030
DB 260 AACCGCGGCAACCGGAGCAGATAACACCGCAACATGATCTGCGCAGCGGGCGGCGG 319
QY 1031 ACCTCAGGTACTGGCTCGGTGTCGGACACCGCAGGTTCTTACCGAGCAACCGCGCAAGATC 1090
DB 320 GCGCAACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 379
QY 1091 AATGTGGTGAAGACACCATCAAGTTCGGCGGTGGCGGAGTCTTTGACGGCGCACCGCGCA 1150
DB 380 GCTGGCGGCAACCGGCAACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 439
QY 1151 ACC 1153
DB 440 ATC 442

RESULT 14

US-09-072-967-180

; Sequence 180, Application US/09072967

; Patent No. 8592877

; GENERAL INFORMATION:

; APPLICANT: Reed, Steven G.

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Dillon, Davin C.

; APPLICANT: Campos-Neto, Antonio

; APPLICANT: Houghton, Raymond

; APPLICANT: Vedwick, Thomas S.

; APPLICANT: Twardzik, Daniel R.

; APPLICANT: Lodes, Michael J.

; APPLICANT: Hendrickson, Ronald C.

; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY

; TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS

; NUMBER OF SEQUENCES: 355

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SEED and BERRY LLP

; STREET: 6300 Columbia Center, 701 Fifth Avenue

; CITY: Seattle

; STATE: Washington

; COUNTRY: USA

; ZIP: 98104-7092

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/072,967

; FILING DATE: 05-MAY-1998

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Maki, David J.

; REGISTRATION NUMBER: 31,392

; REFERENCE/DOCKET NUMBER: 210121.411C9

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206) 622-4900

; TELEFAX: (206) 682-6031

; INFORMATION FOR SEQ ID NO: 180:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 538 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-09-072-967-180

Query Match 3.1%; Score 54.2; DB 4; Length 538;

Best Local Similarity 48.8%; Pred. No. 0.00032;

Matches 177; Conservative 0; Mismatches 183; Indels 3; Gaps 1;

QY 794 GCGGATAGCGGGGCGCGGTACACCGGATGCGACAGGTGGCGGCGCGGTGATACGCCA 853

DB 80 GCGGCGAGCGCGGCAACGCGGCAACCGCGGATGCGGCGCAACAGCGGCGCGCGCAGC 139

QY 854 AGCGCAACAGCGGTGGCGGCGGTGATCTCGACCGGACAGCGGCGGTGGCGGCGCGGT 913

DB 140 GCGGACGCGGTGGCGGCGGGAACGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 199

QY 914 GCGGCGGCGCACACCCACTGCAACAGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 972

DB 200 GCGGCGCTCACCGGTACTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 259

QY 973 --CGGTGGCGAGGTGGCGGTAAACACCGCAAAATCACTCCGAGTTGGCCCAACCTTAACCGT 1030

DB 260 AACCGGCGCAACGAGGACAGATAACACCGCAAAATCACTGCGGCGGCGGCGGCGGCGG 319

QY 1031 ACCTCAGGTACTGGCTCGGTGTCGGACAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 1090

DB 320 GCGAAGCGGCGGCGGCGGCTTCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 379

QY 1091 AATGTGGTGAAGACACCATCAAGGTTCGGCGGCTGGCGAAGTCTTTTGACGCGGCGCA 1150

DB 380 GCTGGGCGCAACGGCACCGCGGGCAAGGGCGGCGCGGCGGCGGCGGCGGCGGCGG 439

QY 1151 ACC 1153

DB 440 ATC 442

RESULT 15

US-09-103-840A-2/c

; Sequence 2, Application US/09103840A

; Patent No. 6294328

; GENERAL INFORMATION:

; APPLICANT: FLEISCHMAN, Robert D.

; APPLICANT: WHITE, Owen R.

; APPLICANT: FRASER, Claire M.

; APPLICANT: VENTER, John C.

; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM

; TITLE OF INVENTION: TUBERCULOSIS

; FILE REFERENCE: 24366-20007.00

; CURRENT APPLICATION NUMBER: US/09/103,840A

; CURRENT FILING DATE: 1998-06-24

; NUMBER OF SEQ ID NOS: 2

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2

; LENGTH: 4403765

; TYPE: DNA

; ORGANISM: Mycobacterium tuberculosis

; FEATURE:

; OTHER INFORMATION: CDC 1551

; OTHER INFORMATION: "n" bases at various positions throughout the sequence

; OTHER INFORMATION: represent a, t, c or g

US-09-103-840A-2

Query Match 3.1%; Score 53.8; DB 3; Length 4403765;

Best Local Similarity 42.8%; Pred. No. 0.019;

Matches 393; Conservative 0; Mismatches 517; Indels 9; Gaps 2;

QY 771 ACGGCGGCTCGGTACACCGTCCGGCGGATAGCGGGGCGCGGTACACCGGATGCGACAG 830

DB 1191658 AAGCGGCGCGCGGCATCGCGGCGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1191599

QY 831 GTGGCGGCGCGGTGATACGCCAACAGCGCAAGCGGTGGCGGCGGTGATCTCCGACCG 890

DB 1191598 GGGCGGCGGTCCCGCGGCTGGATCCAGGCGCACGCGCGGTGCGGCGGCGGCGG 1191539

QY 891 CAACAGCGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 950

DB 1191538 CCGGCGGTACGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 1191479

QY 951 GTGGCACACCCACTGCAACAGCGCGGTGGCGGAGGTGGCGGTAAACCGGCAATCACTCCG 1010

DB 1191478 GAGCGGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1191419

QY 1011 AGTTGGCAACCCCTAACCGGTACTCTCAGGTACTGGGTGTCGGGACCGCGAGGTTCTA 1070

DB 1191418 ACGGCGGCGACGCG-----CGGACCGCGGCGGCGGCGGCGGCGGCGGCGG 1191362

QY 1071 CCGAGCAAGCGGCGCAAGATCAATGTGTGTAAGAACCACCATCAAGGTTCGGCGCTGGCGGAG 1130

DB 1191361 GCGGCTCAGCGGTGGCTGTTCGGGCAACGCGGCGGCGGCGGCGGCGGCGGCGGCG 1191302

QY 1131 TCTTTGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1190

DB 1191301 GCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1191242

QY 1191 GCGAAATCAGAAAGCCCATGTTTCGAGCTGGTGAAGGCGGTACGTTGAAGATGTG---- 1246

DB 1191241 GCGGAGACCGGCGCAACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1191182

QY 1247 --AAGCTGGGTGAGAACAGAGGTTCGATGGCATCCAGTGAAGCCAAAAACGCTCAGGAAG 1304

DB 1191181 GCGACGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1191122

Qy	1305	TCACCATTTGACAACTGTGATGCTCCAGAACGTCGTGTAAGACCTGATTACGGTCAAAGCGG	1364
Db	1191121	GGGGCTTCGGCGCGGCACCGCGGCAACGGTGGCAACGGCCACGCGGGCGGTGCCGCG	1191062
Qy	1365	AGGAGGGCGCAGCGGTCACTAATCTGAACATCAAGNACAGCAGTGCCTAAAGGTGCAGACG	1424
Db	1191061	GTAGCGGGGCAACCGCGGCTGCTCGGCAGCGGAGGACGGCGGCACCGCGGCGACG	1191002
Qy	1425	ACAAGTTTGTCCAGCTCAACGCAACACTCACTTGAAATCGACAACTTCAAGGCCGACG	1484
Db	1191001	GGGCAACGGCGGTCTGGGCGCGGCGAGCGGCGCCAAAGGCAACGGCGCAACGGTGGCG	1190942
Qy	1485	ATTCGGCACGATGTTGCGCACCAACGGTGGCAAGCAGTTTGATGACATGAGCATCGAGC	1544
Db	1190941	ACGGCGGCAAGGGCGGCGACGCCCACTTGTATCGGTAACGGCGGTAAACGGCGCAACGGTG	1190882
Qy	1545	TGAACGGCATCGAAGCTAACCCAGCTTCGCTCGCTGGTGAAGCGACAGTGACGATC	1604
Db	1190881	GCAAGGGCGGACCGGCGCTGATGCCGGGATCAACGGCACTGGAGGCGCGCGGTAGTC	1190822
Qy	1605	TGAAGCTGGCAACGGGCAACATCGCCATGACCGCAGTCAAACA CGCCTACGATAAAACC	1664
Db	1190821	GGGGCAGATCTCCGCAACCCCGGCAACCGCGGCAATTAACCGCACGGCCAGATCCG	1190762
Qy	1665	AGGCATCGACCCCAACAC	1683
Db	1190761	GTGTACGACGATATCACAC	1190743

Search completed: July 29, 2005, 21:38:52
Job time : 324 secs